

# **DEBIX SOM B User Guide**

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Compiled by: Polyhex Technology Company Limited (http://www.polyhex.net/)

DEBIX SOM B is the second System-on-Module product of the DEBIX series. As with the DEBIX Model C SBC, it is based on NXP i.MX 93 CPU with a 0.5 TOPS microNPU, which brings us the same powerful system performance. This core board design has some notable benefits, such as design reutilization, reduction of development time of the carrier boards, and flexible integration into various embedded systems. It is suitable for applications in Industry 4.0, IoT, smart homes, building control, and multimedia, meeting the demands for high performance and real-time control in these fields.

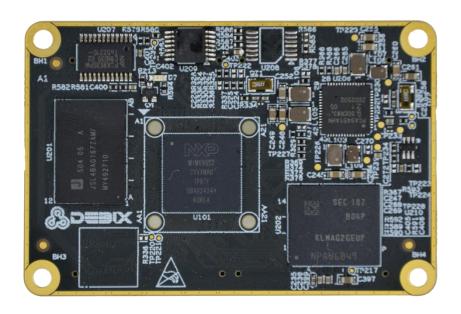


Figure 1 DEBIX SOM B





	REVISION HISTORY					
Rev.	Rev. Date Description					
1.0	2025.05.09	First edition				



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# **Chapter 1 Security**

# 1.1. Safety Precaution

This document describes the safety requirements for operating the device with board-to-board direct interfaces. The interfaces are designed for plug-and-play connections, but proper handling is critical to ensure reliability.

**Table 1 Terms and Conventions** 

Symbol	Meaning
Warning!	Always power off the device before inserting or removing board-to-board connectors. Do not hot-plug interfaces while the system is powered on. Incorrect insertion during live operation may cause short circuits or damage to sensitive components.
Caution!	Always ground yourself to remove static charge before handling the device. Board-to-board connectors and internal circuits are highly sensitive to electrostatic discharge (ESD). Use a grounded wrist strap and place components on an ESD-safe surface or in shielded packaging.

# 1.2. Safety Instruction

To ensure safe operation and prevent damage, observe the following:

#### a. Power Management

- ♦ Disconnect the device from all power sources before cleaning. Use a dry or slightly damp cloth. Do not use liquid cleaners.
- Verify that the power supply voltage matches the device specifications before initial use.

#### b. Interface Handling

- Ensure board-to-board connectors are aligned correctly before insertion. Forcing misaligned connectors may bend pins or damage the interface.
- ♦ Do not stack or apply excessive mechanical pressure on connected boards.



#### c. Environmental Requirements

- Operate and store the device within the specified temperature and humidity range.
   Extreme conditions may degrade connector integrity.
- ♦ Keep the device away from liquids, dust, and corrosive gases.

#### d. Static Sensitivity

- ♦ Handle the device only in an ESD-protected environment.
- ♦ Never touch exposed board-to-board pins or connector contacts directly.

#### e. Maintenance

- ♦ If the device is unused for extended periods, store it in a dry, anti-static bag.
- Inspect connectors regularly for debris or oxidation. Clean only with compressed air or a specialized contact cleaner.

#### f. Fault Response

Immediately power off the device and contact service personnel if any of the following occur:

- ♦ Visible damage to board-to-board connectors (e.g., bent pins, cracked housing).
- ♦ Unusual odors, smoke, or overheating.
- ♦ Liquid ingress into the device.
- ♦ Functional failure despite correct operation.

#### g. Access Control

This device contains precision components. Only authorized personnel may disassemble or modify the hardware.

**DISCLAIMER:** Polyhex assumes no liability for the accuracy of any statement of this instructional document.

# 1.3. Declaration of Compliance

This product has passed the following certifications:

#### **Table 2 Compliance Certification**



Symbol	Meaning
CE	This equipment has passed CE certified.
UK	This equipment has passed UKCA certified.
FC	This equipment has passed FCC certified.
RoHS	This equipment is manufactured in compliance with RoHS regulations.
PSE	This equipment has passed PSE certified.
	This equipment is manufactured in compliance with RCM regulations.

# 1.4. Technical Support

1. Visit DEBIX website https://www.debix.io/ where you can find the latest information about the product.

# Quick Links:

Debix Documentation: <a href="https://debix.io/Document/manual.html">https://debix.io/Document/manual.html</a>

Debix Blog: https://debix.io/Software/blog.html

Debix GitHub: <a href="https://github.com/debix-tech">https://github.com/debix-tech</a>

- 2. Contact your distributor, sales representative or Polyhex's customer service center for technical support if you need additional assistance. Please have the following info ready before you call:
  - Product name and memory size



- Description of your peripheral attachments
- Description of your software(operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages

# **■** TechSupport Platforms:

**Discord Community (recommended):** https://discord.com/invite/adaHHaDkH2

Email: teksupport@debix.io



# **Chapter 2 Introduction**

DEBIX SOM B is the second System-on-Module product of the DEBIX series. As with the DEBIX Model C SBC, it is based on NXP i.MX 93 CPU with a 0.5 TOPS microNPU, which brings us the same powerful system performance. This core board design has some notable benefits, such as design reutilization, reduction of development time of thecarrier boards, and flexible integration into various embedded systems.

#### Main features:

- Designed for demanding applications in Industry 4.0, IoT, smart home, building control, multimedia, etc;
- General-purpose Cortex-M33 up to 250MHz for real-time and low-power processing;
- Support for Yocto, Ubuntu, Debian, OpenWRT and FreeRTOS.



# 2.1. Overview

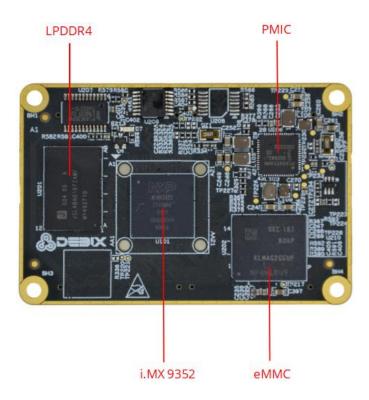


Figure 2 Front View of the DEBIX SOM B

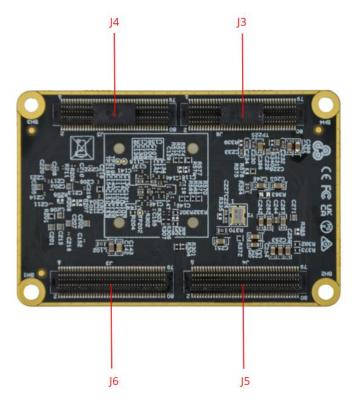


Figure 3 Back View of the DEBIX SOM B



DEBIX SOM B utilizes NXP i.MX 93 as SoC. See Table 3 for the data specifications.

### Table 3 DEBIX SOM B Specification

DEBIX SOM B	
System	
СРИ	NXP i.MX 9352, 2 x Arm® Cortex®-A55 @1.7GHz, 1 x Arm® Cortex®-M33 @250MHz, 1 x Arm® Ethos™-U65 microNPU @0.5TOPS. (i.MX 93 series CPU optional)
Memory	2GB LPDDR4 (1GB optional)
Storage	Onboard 16GB eMMC (8GB/32GB/64GB/128GB/256GB optional)
OS	Ubuntu 22.04, Yocto-L6.12.3_1.0.0, Debian 12 (also supports OpenWRT and FreeRTOS)
I/O Interfaces	
Gigabit Ethernet	Up to 2 x Gigabit Ethernet controller, one of which supports Time Sensitive Networking (TSN)
Display	<ul> <li>1 x LVDS (4-lane), supports up to 1366x768@60Hz or 1280x800@60Hz</li> <li>1 x MIPI DSI (4-lane), supports up to 1080@60Hz or 1920x1200@60Hz</li> <li>1 x 24-bit parallel RGB, supports up to 1366x768@60Hz or 1280x800@60Hz</li> </ul>
Camera	1 x MIPI CSI, supports up to 2 RX data lanes (plus 1 RX clock lane). Compliant with MIPI CSI-2 v1.3 and MIPI D-PHY v1.2 specifications.
Audio	Up to 3 x SAI (synchronous audio interface), 1 x SPDIF IN, 1 x SPDIF OUT/IN, 1 x PDM
USB	2 x USB 2.0
UART	Up to 8 x UART
I2C	Up to 6 x I2C
SDIO	Up to 2 x SDIO 3.0

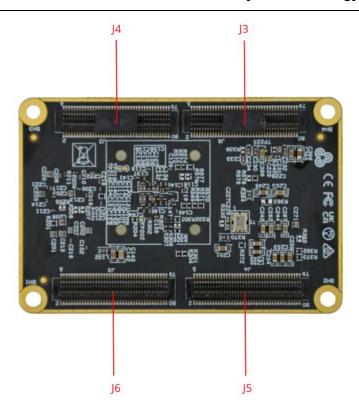


CAN	Up to 2 x CAN			
SPI	Up to 8 x SPI			
ADC	Up to 4 x 12-bit ADC (4-channel)			
JTAG	1 x JTAG			
Power Supply				
Power Input	DC 3.5V~5V/1A			
Operating Temp	erature			
Temp. Range	-40°C~85°C for default, -20°C~70°C optional			
Mechanical & Er	nvironmental			
Connector	4 x 2*40pin/0.5mm pitch board-to-board connector (PN: BB51024A-R80-10-32), matching sockets of various heights			
Size (L x W x H)	Size (L x W x H) 60.0mm x 40.0mm x 5.6mm (±0.5mm)			
Gross Weight	23g (±0.5g)			
Net Weight	Net Weight 11g (±0.5g)			

# 2.2. Interface

DEBIX SOM B has four external 2\*40pin/0.5mm pitch board-to-board Plug connectors, the model is BB51024A-R80-10-32, used to connect DEBIX SOM A I/O Board.





The table below lists the pinouts for the four connectors of DEBIX SOM B, as well as the corresponding CPU pin names for each pin.

**Table 4 Header description of Pinout form** 

Table Column Name	Meaning
Default	The function pin definition we are using now (the definition given in the
	schematic diagram)
BALL_NAME	The pin name of the corresponding CPU
BALL	CPU pin number

### 2.2.1. J3 Pinout

Table 5 J3 Pinout

Pin	Default	BALL_NAME	BALL	NOTE
Pin1	GND			
Pin2	GND			



Pin3         GPIO2_IO10         GPIO_IO10         N17         NVCC_GPIO, 1V8           Pin4         EXP_DSI_EN         IO0_5         9         Pin of the PCA9535PW           Pin5         GPIO2_IO11         GPIO_IO11         N18         NVCC_GPIO, 1V8           Pin6         EXP_DSI_TP_RST         IO0_4         8         Pin of the PCA9535PW           Pin7         GPIO2_IO08         GPIO_IO08         M20         NVCC_GPIO, 1V8           Pin8         GPIO2_IO06         L20         NVCC_GPIO, 1V8           Pin9         ADC_IN0         ADC_IN0         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IO0_7         11         Pin of the PCA9535PW           Pin11         GND         INC         INC         INC           Pin13         NC         INC         INC         INC           Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC         INC         INC         INC           Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         INC         INC         INC           Pin28         GPIO4_IO28					
Pin5         GPIO2_IO11         GPIO_IO11         N18         NVCC_GPIO, 1V8           Pin6         EXP_DSI_TP_RST         IO0_4         8         Pin of the PCA9535PW           Pin7         GPIO2_IO08         GPIO_IO08         M20         NVCC_GPIO, 1V8           Pin8         GPIO2_IO06         L20         NVCC_GPIO, 1V8           Pin9         ADC_IN0         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IO0_7         11         Pin of the PCA9535PW           Pin11         GND         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC         NC         NVCC_GPIO, 1V8           Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC         NC         NVCC_GPIO, 1V8           Pin16         GPIO2_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         V4         NVCC_WAKEUP, 1V8           Pin18         GPIO4_IO29         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8	Pin3	GPIO2_IO10	GPIO_IO10	N17	NVCC_GPIO, 1V8
Pin6         EXP_DSI_TP_RST         IOO_4         8         Pin of the PCA9535PW           Pin7         GPIO2_IOO8         GPIO_IOO8         M20         NVCC_GPIO, 1V8           Pin8         GPIO2_IOO6         GPIO_IOO6         L20         NVCC_GPIO, 1V8           Pin9         ADC_INO         ADC_INO         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IOO_7         11         Pin of the PCA9535PW           Pin11         GND         IOI_0         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IOI_0         13         Pin of the PCA9535PW           Pin13         NC         IOI_0         13         Pin of the PCA9535PW           Pin14         GPIO2_IO22         GPIO_IO2         T21         NVCC_GPIO, 1V8           Pin15         NC         IOI_0         NVCC_GPIO, 1V8           Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         IOI_0         NVCC_WAKEUP, 1V8         IOI_0           Pin29         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         IOI_0         IOI_0         IOI_0	Pin4	EXP_DSI_EN	100_5	9	Pin of the PCA9535PW
Pin7         GPIO2_IO08         GPIO_IO08         M20         NVCC_GPIO, 1V8           Pin8         GPIO2_IO06         GPIO_IO06         L20         NVCC_GPIO, 1V8           Pin9         ADC_IN0         ADC_IN0         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IOO_7         11         Pin of the PCA9535PW           Pin11         GND         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC         13         Pin of the PCA9535PW           Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC         10         NVCC_GPIO, 1V8         NVCC_GPIO, 1V8           Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         14         NVCC_WAKEUP, 1V8           Pin19         NC         14         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         10         NC           Pin23         GND         14         VDD_USB_3P3, 3V3	Pin5	GPIO2_IO11	GPIO_IO11	N18	NVCC_GPIO, 1V8
Pin8         GPIO2_IO06         GPIO_IO06         L20         NVCC_GPIO, 1V8           Pin9         ADC_IN0         ADC_IN0         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IO0_7         11         Pin of the PCA9535PW           Pin11         GND         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC	Pin6	EXP_DSI_TP_RST	100_4	8	Pin of the PCA9535PW
Pin9         ADC_IN0         ADC_IN0         B19         NVCC_GPIO, 1V8           Pin10         EXP_LVDS_BL_EN         IO0_7         11         Pin of the PCA9535PW           Pin11         GND         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC         13         Pin of the PCA9535PW           Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC         2         NVCC_GPIO, 1V8           Pin16         GPIO2_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         2         NVCC_WAKEUP, 1V8           Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         3         NVCC_WAKEUP, 1V8           Pin23         GND         4         NVCC_WAKEUP, 1V8           Pin24         USB1_DN         USB1_DN         A14         VDD_USB_3P3, 3V3           Pin25         NC         3         4         NVD_USB_3P3, 3V3           Pin27	Pin7	GPIO2_IO08	GPIO_IO08	M20	NVCC_GPIO, 1V8
Pin10         EXP_LVDS_BL_EN         IOO_7         11         Pin of the PCA9535PW           Pin11         GND         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC             Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC             Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND             Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin19         NC             Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC             Pin22         GND             Pin23         GND             Pin24         USB1_DN         USB1_DN         A14         VDD_USB_3P3, 3V3           Pin25         NC             Pin28 </td <td>Pin8</td> <td>GPIO2_IO06</td> <td>GPIO_IO06</td> <td>L20</td> <td>NVCC_GPIO, 1V8</td>	Pin8	GPIO2_IO06	GPIO_IO06	L20	NVCC_GPIO, 1V8
Pin11         GND         IO1_0         13         Pin of the PCA9535PW           Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC         IO1_0         I	Pin9	ADC_IN0	ADC_IN0	B19	NVCC_GPIO, 1V8
Pin12         EXP_LVDS_VDD_EN         IO1_0         13         Pin of the PCA9535PW           Pin13         NC	Pin10	EXP_LVDS_BL_EN	100_7	11	Pin of the PCA9535PW
Pin13         NC           Pin14         GPI02_I022         GPI0_I022         T21         NVCC_GPI0, 1V8           Pin15         NC         S         NVCC_GPI0, 1V8           Pin16         GPI02_I024         GPI0_I024         U21         NVCC_GPI0, 1V8           Pin17         GND         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin19         NC         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin20         GPI04_I029         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         NC         NVCC_WAKEUP, 1V8           Pin22         GND         A14         VDD_USB_3P3, 3V3           Pin23         GND         A14         VDD_USB_3P3, 3V3           Pin24         USB1_DP         USB1_DP         B14         VDD_USB_3P3, 3V3           Pin26         USB1_DP         B14         VDD_USB_3P3, 3V3           Pin27         NC         NC           Pin28         GND         SND	Pin11	GND			
Pin14         GPIO2_IO22         GPIO_IO22         T21         NVCC_GPIO, 1V8           Pin15         NC         V         V         NVCC_GPIO, 1V8           Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         V         NVCC_WAKEUP, 1V8           Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         V           Pin22         GND         V         V           Pin23         GND         A14         VDD_USB_3P3, 3V3           Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC         NC         VDD_USB_3P3, 3V3           Pin27         NC         NC         VDD_USB_3P3, 3V3	Pin12	EXP_LVDS_VDD_EN	IO1_0	13	Pin of the PCA9535PW
Pin15         NC           Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         W         NVCC_WAKEUP, 1V8           Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin19         NC         V4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         V         NVCC_WAKEUP, 1V8           Pin22         GND         V         V           Pin23         GND         V         V           Pin24         USB1_DN         USB1_DN         A14         VDD_USB_3P3, 3V3           Pin25         NC         V         N         V           Pin26         USB1_DP         USB1_DP         B14         VDD_USB_3P3, 3V3           Pin27         NC         V         N           Pin28         GND         W         N	Pin13	NC			
Pin16         GPIO2_IO24         GPIO_IO24         U21         NVCC_GPIO, 1V8           Pin17         GND         U4         NVCC_WAKEUP, 1V8           Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin19         NC         V4         NVCC_WAKEUP, 1V8           Pin21         NC         V         NVCC_WAKEUP, 1V8           Pin22         GND         V         V           Pin23         GND         V         V           Pin24         USB1_DN         USB1_DN         A14         VDD_USB_3P3, 3V3           Pin25         NC         NC         B14         VDD_USB_3P3, 3V3           Pin27         NC         NC         V           Pin28         GND         GND         C	Pin14	GPIO2_IO22	GPIO_IO22	T21	NVCC_GPIO, 1V8
Pin17         GND           Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin19         NC         V4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         V           Pin22         GND         V         V           Pin23         GND         A14         VDD_USB_3P3, 3V3           Pin24         USB1_DN         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC         V           Pin28         GND         GND	Pin15	NC			
Pin18         GPIO4_IO28         CCM_CLKO3         U4         NVCC_WAKEUP, 1V8           Pin19         NC         V4         NVCC_WAKEUP, 1V8           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC         V         NVCC_WAKEUP, 1V8           Pin22         GND         V         V           Pin22         GND         A14         VDD_USB_3P3, 3V3           Pin24         USB1_DN         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin25         NC         NC         Pin27         NC           Pin28         GND         GND         FINAL	Pin16	GPIO2_IO24	GPIO_IO24	U21	NVCC_GPIO, 1V8
Pin19         NC           Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC             Pin22         GND             Pin23         GND             Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC              Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC             Pin28         GND	Pin17	GND			
Pin20         GPIO4_IO29         CCM_CLKO4         V4         NVCC_WAKEUP, 1V8           Pin21         NC             Pin22         GND             Pin23         GND             Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC             Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC            Pin28         GND	Pin18	GPIO4_IO28	CCM_CLKO3	U4	NVCC_WAKEUP, 1V8
Pin21         NC           Pin22         GND           Pin23         GND           Pin24         USB1_DN           USB1_D_N         A14           VDD_USB_3P3, 3V3           Pin25         NC           Pin26         USB1_DP           USB1_D_P         B14           VDD_USB_3P3, 3V3           Pin27         NC           Pin28         GND	Pin19	NC			
Pin22         GND           Pin23         GND           Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC         B14         VDD_USB_3P3, 3V3           Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC         Pin28         GND	Pin20	GPIO4_IO29	CCM_CLKO4	V4	NVCC_WAKEUP, 1V8
Pin23         GND           Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC         VDD_USB_3P3, 3V3           Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC         VDD_USB_3P3, 3V3	Pin21	NC			
Pin24         USB1_DN         USB1_D_N         A14         VDD_USB_3P3, 3V3           Pin25         NC </td <td>Pin22</td> <td>GND</td> <td></td> <td></td> <td></td>	Pin22	GND			
Pin25         NC           Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC         Pin28         GND	Pin23	GND			
Pin26         USB1_DP         USB1_D_P         B14         VDD_USB_3P3, 3V3           Pin27         NC         Pin28         GND	Pin24	USB1_DN	USB1_D_N	A14	VDD_USB_3P3, 3V3
Pin27 NC Pin28 GND	Pin25	NC			
Pin28 GND	Pin26	USB1_DP	USB1_D_P	B14	VDD_USB_3P3, 3V3
	Pin27	NC			
Pin29 GND	Pin28	GND			
	Pin29	GND			



Pin30         USB2_DN         USB2_D_N         A15         VDD_USB_3P3, 3V3           Pin31         NC              Pin32         USB2_DP         USB2_DP         B15         VDD_USB_3P3, 3V3           Pin33         NC              Pin34         GND              Pin35         GND               Pin36         USB1_VBUS_3V3         USB1_VBUS         F12         VDD_USB_3P3, 3.3V            Pin37         NC                Pin39         NC <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
Pin32         USB2_DP         USB2_D_P         B15         VDD_USB_3P3, 3V3           Pin33         NC              Pin34         GND              Pin35         GND               Pin36         USB1_VBUS_3V3         USB1_VBUS	Pin30	USB2_DN	USB2_D_N	A15	VDD_USB_3P3, 3V3
Pin34         GND           Pin35         GND           Pin36         USB1_VBUS_3V3         USB1_VBUS         F12         VDD_USB_3P3, 3.3V           Pin37         NC         Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         W1         NVCC_WAKEUP, 1V8           Pin47         GND         F1044         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         Y1         NVCC_WAKEUP, 1V8         NC         Y1         NVCC_WAKEUP, 1V8           Pin50         GND         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8         NC           Pin51         NC         NC         NC         NC         NC	Pin31	NC			
Pin34         GND           Pin35         GND           Pin36         USB1_VBUS_3V3         USB1_VBUS         F12         VDD_USB_3P3, 3.3V           Pin37         NC         Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         Pin40         JTAG_TMS         JYAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         Y2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         W1         NVCC_WAKEUP, 1V8           Pin46         JTAG_MOD         TP235         W1         NVCC_WAKEUP, 1V8           Pin49         NC         Y1         NVCC_WAKEUP, 1V8         W1           Pin50         GND         W1         NVCC_WAKEUP, 1V8         W1           Pin51         NC         Y1         NVCC_WAKEUP, 1V8         W1           Pin51         NC         W1         NVCC_WAKEUP, 1V8         W1           Pin52	Pin32	USB2_DP	USB2_D_P	B15	VDD_USB_3P3, 3V3
Pin35         GND           Pin36         USB1_VBUS_3V3         USB1_VBUS         F12         VDD_USB_3P3, 3.3V           Pin37         NC         F12         VDD_USB_3P3, 3.3V           Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         NC         NVCC_WAKEUP, 1V8           Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         NC         NC         NC           Pin46         JTAG_MOD         TP235         NO         NO           Pin49         NC         NC         NC         NO           Pin50         GND         MIPI_CSI1_DO_N         A11         VDD_MIPI_1P8, 1V8           Pin51         NC         NC         NO         NO           Pin53         GND         MIPI_CSI1_DO_P	Pin33	NC			
Pin36         USB1_VBUS_3V3         USB1_VBUS         F12         VDD_USB_3P3, 3.3V           Pin37         NC         Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         NC         NVCC_WAKEUP, 1V8           Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         Y2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin45         NC         W1         NVCC_WAKEUP, 1V8           Pin46         JTAG_MOD         TP235         VDVC_WAKEUP, 1V8           Pin47         GND         VDVC_WAKEUP, 1V8         VDVC_WAKEUP, 1V8           Pin49         NC         VDVC_WAKEUP, 1V8         VDVC_WAKEUP, 1V8           Pin50         GND         VDVC_WAKEUP, 1V8         VDVC_WAKEUP, 1V8           Pin51         NC         VDVC_WAKEUP, 1V8         VDVC_WAKEUP, 1V8	Pin34	GND			
Pin37         NC         E14         VDD_USB_3P3, 3.3V           Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         NVCC_WAKEUP, 1V8           Pin40         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         Y2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin45         NC         W1         NVCC_WAKEUP, 1V8           Pin46         JTAG_MOD         TP235         W2           Pin47         GND         W1         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         Y1         NVCC_WAKEUP, 1V8           Pin50         GND         W1         NVCC_WAKEUP, 1V8           Pin51         NC         Y1         NVCC_WAKEUP, 1V8           Pin52         CSI1_DNO         MIPI_CSI1_DO_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         MIPI_CSI1_DO_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_D	Pin35	GND			
Pin38         USB2_VBUS_3V3         USB2_VBUS         E14         VDD_USB_3P3, 3.3V           Pin39         NC         NVCC_WAKEUP, 1V8           Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         NC         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         NC         NC         NVCC_WAKEUP, 1V8           Pin46         JTAG_MOD         TP235         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         NC         NVCC_WAKEUP, 1V8           Pin50         GND         NC         NVCC_WAKEUP, 1V8           Pin51         NC         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin51         NC         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin53         GND         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin54         CSI1_DNO         MIPI_CSI1_DO_N         A11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DNO         MIPI_	Pin36	USB1_VBUS_3V3	USB1_VBUS	F12	VDD_USB_3P3, 3.3V
Pin39         NC           Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         V2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         V1         NVCC_WAKEUP, 1V8           Pin46         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         V1         NVCC_WAKEUP, 1V8         V0D_MIPI_1V8           Pin50         GND         GND         V0D_MIPI_1P8, 1V8           Pin51         NC         NC         NOD_MIPI_1P8, 1V8           Pin53         GND         MIPI_CSI1_DO_P         B11         V0D_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_DSI1_DO_N         A6         V0D_MIPI_1P8, 1V8	Pin37	NC			
Pin40         JTAG_TMS         JTAG_TMS         W2         NVCC_WAKEUP, 1V8           Pin41         GND         V2         NVCC_WAKEUP, 1V8           Pin42         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         V1         NVCC_WAKEUP, 1V8           Pin47         GND         V1         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         V1         NVCC_WAKEUP, 1V8           Pin50         GND         MIPI_CSI1_DO_N         A11         VDD_MIPI_1P8, 1V8           Pin51         NC         VDD_MIPI_1P8, 1V8         VDD_MIPI_1P8, 1V8           Pin53         GND         MIPI_CSI1_DO_N         A6         VDD_MIPI_1P8, 1V8           Pin55         DSI_DNO         MIPI_DSI1_DO_N         A6         VDD_MIPI_1P8, 1V8	Pin38	USB2_VBUS_3V3	USB2_VBUS	E14	VDD_USB_3P3, 3.3V
Pin41         GND           Pin42         JTAG_TDO         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         NC         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         NVCC_WAKEUP, 1V8           Pin45         NC         NC           Pin46         JTAG_MOD         TP235           Pin47         GND         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         NC         NC         NVCC_WAKEUP, 1V8           Pin50         GND         A11         VDD_MIPI_1P8, 1V8           Pin51         NC         NC         NVDD_MIPI_1P8, 1V8           Pin53         GND         MIPI_CSI1_DO_P         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_DSI1_DO_N         A6         VDD_MIPI_1P8, 1V8	Pin39	NC			
Pin42         JTAG_TDO         JTAG_TDO         Y2         NVCC_WAKEUP, 1V8           Pin43         NC         W1         NVCC_WAKEUP, 1V8           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         V1         NVCC_WAKEUP, 1V8           Pin46         JTAG_MOD         TP235         V1         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         V1         NVCC_WAKEUP, 1V8           Pin50         GND         GND         V1           Pin51         NC         V0         V0           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         GND         WIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin40	JTAG_TMS	JTAG_TMS	W2	NVCC_WAKEUP, 1V8
Pin43         NC           Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC         Pin46         JTAG_MOD         TP235           Pin47         GND         Fin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         NC         Pin50         GND         Fin51         NC           Pin51         NC         NIPI_CSI1_DO_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_DO_N         A6         VDD_MIPI_1P8, 1V8	Pin41	GND			
Pin44         JTAG_TDI         JTAG_TDI         W1         NVCC_WAKEUP, 1V8           Pin45         NC              Pin46         JTAG_MOD         TP235             Pin47         GND                Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8            Pin49         NC               Pin50         GND                Pin51         NC <td< td=""><td>Pin42</td><td>JTAG_TDO</td><td>JTAG_TDO</td><td>Y2</td><td>NVCC_WAKEUP, 1V8</td></td<>	Pin42	JTAG_TDO	JTAG_TDO	Y2	NVCC_WAKEUP, 1V8
Pin45         NC           Pin46         JTAG_MOD         TP235           Pin47         GND         V1           Pin48         JTAG_TCK         JTAG_TCK           Pin49         NC         V1           Pin50         GND         V0           Pin51         NC         V0           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin43	NC			
Pin46         JTAG_MOD         TP235           Pin47         GND         NVCC_WAKEUP, 1V8           Pin48         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         NC           Pin50         GND         Fin51         NC           Pin51         NC         NIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_N         A6         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin44	JTAG_TDI	JTAG_TDI	W1	NVCC_WAKEUP, 1V8
Pin47         GND           Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC         NC         Pin50         GND           Pin51         NC         NC         VDD_MIPI_1P8, 1V8           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin45	NC			
Pin48         JTAG_TCK         JTAG_TCK         Y1         NVCC_WAKEUP, 1V8           Pin49         NC             Pin50         GND             Pin51         NC              Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND          B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_N         A6         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin46	JTAG_MOD	TP235		
Pin49         NC           Pin50         GND           Pin51         NC           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin47	GND			
Pin50         GND           Pin51         NC           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin48	JTAG_TCK	JTAG_TCK	Y1	NVCC_WAKEUP, 1V8
Pin51         NC           Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         Fin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin49	NC			
Pin52         CSI1_DN0         MIPI_CSI1_D0_N         A11         VDD_MIPI_1P8, 1V8           Pin53         GND         B11         VDD_MIPI_1P8, 1V8           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin50	GND			
Pin53         GND           Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin51	NC			
Pin54         CSI1_DP0         MIPI_CSI1_D0_P         B11         VDD_MIPI_1P8, 1V8           Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin52	CSI1_DN0	MIPI_CSI1_D0_N	A11	VDD_MIPI_1P8, 1V8
Pin55         DSI_DN0         MIPI_DSI1_D0_N         A6         VDD_MIPI_1P8, 1V8	Pin53	GND			
	Pin54	CSI1_DP0	MIPI_CSI1_D0_P	B11	VDD_MIPI_1P8, 1V8
Pin56 GND	Pin55	DSI_DN0	MIPI_DSI1_D0_N	A6	VDD_MIPI_1P8, 1V8
	Pin56	GND			



Pin57         DSLDP0         MIPLDSI1_D0_P         B6         VDD_MIPL_1P8, 1V8           Pin58         CSI1_DN1         MIPLCSI1_D1_N         A10         VDD_MIPL_1P8, 1V8           Pin59         DSL_DN1         MIPLDSI1_D1_N         A7         VDD_MIPL_1P8, 1V8           Pin60         CSI1_DP1         MIPL_DSI1_D1_P         B10         VDD_MIPL_1P8, 1V8           Pin61         DSL_DP1         MIPL_DSI1_D1_P         B7         VDD_MIPL_1P8, 1V8           Pin62         GND         WDD_MIPL_1P8, 1V8         WDD_MIPL_1P8, 1V8           Pin63         GND         WDD_MIPL_1P8, 1V8         WDD_MIPL_1P8, 1V8           Pin64         CSI1_CKN         MIPL_DSI1_CLK_N         D6         VDD_MIPL_1P8, 1V8           Pin65         DSL_CKN         MIPL_DSI1_CLK_P         E10         VDD_MIPL_1P8, 1V8           Pin66         CSI1_CKP         MIPL_DSI1_CLK_P         D6         VDD_MIPL_1P8, 1V8           Pin68         GND         WDD_MIPL_1P8, 1V8         WDD_MIPL_1P8, 1V8           Pin70         NC         WIPL_DSI1_D2_N         A8         VDD_MIPL_1P8, 1V8           Pin73         DSL_DN2         MIPL_DSI1_D3_N         A9         VDD_MIPL_1P8, 1V8           Pin75         DSL_DN3         MIPL_DSI1_D3_P         B9<					
Pin59         DSI_DN1         MIPI_DSI1_D1_N         A7         VDD_MIPI_1P8, 1V8           Pin60         CSI1_DP1         MIPI_CSI1_D1_P         B10         VDD_MIPI_1P8, 1V8           Pin61         DSI_DP1         MIPI_DSI1_D1_P         B7         VDD_MIPI_1P8, 1V8           Pin62         GND         F0         VDD_MIPI_1P8, 1V8           Pin63         GND         F0         VDD_MIPI_1P8, 1V8           Pin64         CSI1_CKN         MIPI_DSI1_CLK_N         D10         VDD_MIPI_1P8, 1V8           Pin65         DSI_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_DSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin69         GND         F0         VDD_MIPI_1P8, 1V8           Pin70         NC         F0         F0           Pin71         DSI_DN2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin73         DSI_DP2         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin74         GND         F0         F0         F0         F0           Pin75         DSI_D	Pin57	DSI_DP0	MIPI_DSI1_D0_P	В6	VDD_MIPI_1P8, 1V8
Pin60         CSI1_DP1         MIPI_CSI1_D1_P         B10         VDD_MIPI_1P8, 1V8           Pin61         DSI_DP1         MIPI_DSI1_D1_P         B7         VDD_MIPI_1P8, 1V8           Pin62         GND         F0         VDD_MIPI_1P8, 1V8           Pin63         GND         F0         VDD_MIPI_1P8, 1V8           Pin64         CSI1_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin65         DSI_CKN         MIPI_DSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin69         GND         F0         VDD_MIPI_1P8, 1V8           Pin70         NC         F0         F0           Pin71         DSI_DN2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin73         DSI_DP2         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin74         GND         F0         F0         F0         F0           Pin75         DSI_DN3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP	Pin58	CSI1_DN1	MIPI_CSI1_D1_N	A10	VDD_MIPI_1P8, 1V8
Pin61         DSI_DP1         MIPI_DSI1_D1_P         B7         VDD_MIPI_1P8, 1V8           Pin62         GND         Fin63         GND         Fin64         Fin65         GND         Fin66         Fin66         CSI1_CKN         MIPI_CSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8         Fin66         VDD_MIPI_1P8, 1V8         Fin67         Fin66         CSI1_CKP         MIPI_DSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8         Fin67         Fin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8         Fin68         Fin69         GND         Fin69         GND         Fin70         NC         Fin70         NC         Fin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8         Fin72         NC         Fin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8         Fin74         GND         Fin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8         Fin76         NC         Fin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8         Fin78         NC         Fin79         GND         Fin79         GND         Fin79         GND         Fin79         GND         Fin79         GND         Fin79         GND         Fi	Pin59	DSI_DN1	MIPI_DSI1_D1_N	A7	VDD_MIPI_1P8, 1V8
Pin62         GND           Pin63         GND           Pin64         CSI1_CKN         MIPI_CSI1_CLK_N         D10         VDD_MIPI_1P8, 1V8           Pin65         DSI_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_DSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         WDD_MIPI_1P8, 1V8           Pin70         NC         WIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin71         DSI_DN2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         WIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin79         GND         WIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8	Pin60	CSI1_DP1	MIPI_CSI1_D1_P	B10	VDD_MIPI_1P8, 1V8
Pin63         GND           Pin64         CSI1_CKN         MIPI_CSI1_CLK_N         D10         VDD_MIPI_1P8, 1V8           Pin65         DSI_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_CSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         GND         WIPI_DSI1_DSI1_DSIN_DSIN_DSIN_DSIN_DSIN_DSIN_DSIN_DSIN	Pin61	DSI_DP1	MIPI_DSI1_D1_P	В7	VDD_MIPI_1P8, 1V8
Pin64         CSI1_CKN         MIPI_CSI1_CLK_N         D10         VDD_MIPI_1P8, 1V8           Pin65         DSI_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_DSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         F0         VDD_MIPI_1P8, 1V8           Pin70         NC         NC         VDD_MIPI_1P8, 1V8           Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         B8         VDD_MIPI_1P8, 1V8           Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin62	GND			
Pin65         DSI_CKN         MIPI_DSI1_CLK_N         D6         VDD_MIPI_1P8, 1V8           Pin66         CSI1_CKP         MIPI_CSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         Fin69         GND         Fin70           Pin70         NC         NC         Fin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         NC         Fin73         DSI_DD2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         R         Pin78         NC           Pin78         NC         Pin79         GND	Pin63	GND			
Pin66         CSI1_CKP         MIPI_CSI1_CLK_P         E10         VDD_MIPI_1P8, 1V8           Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         GND         Pin69         GND           Pin70         NC         NC         NC         Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         NC         Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin76         NC         NC         Pin78         NC           Pin79         GND         GND         Pin79         GND	Pin64	CSI1_CKN	MIPI_CSI1_CLK_N	D10	VDD_MIPI_1P8, 1V8
Pin67         DSI_CKP         MIPI_DSI1_CLK_P         D6         VDD_MIPI_1P8, 1V8           Pin68         GND         GND         Pin69         GND           Pin70         NC         NC         VDD_MIPI_1P8, 1V8           Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         NC         Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND         GND         Pin79	Pin65	DSI_CKN	MIPI_DSI1_CLK_N	D6	VDD_MIPI_1P8, 1V8
Pin68         GND           Pin69         GND           Pin70         NC           Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         NC         Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND         GND	Pin66	CSI1_CKP	MIPI_CSI1_CLK_P	E10	VDD_MIPI_1P8, 1V8
Pin69         GND           Pin70         NC           Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         NC         Pin79         GND	Pin67	DSI_CKP	MIPI_DSI1_CLK_P	D6	VDD_MIPI_1P8, 1V8
Pin70         NC           Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin68	GND			
Pin71         DSI_DN2         MIPI_DSI1_D2_N         A8         VDD_MIPI_1P8, 1V8           Pin72         NC         B8         VDD_MIPI_1P8, 1V8           Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin69	GND			
Pin72         NC           Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin70	NC			
Pin73         DSI_DP2         MIPI_DSI1_D2_P         B8         VDD_MIPI_1P8, 1V8           Pin74         GND         A9         VDD_MIPI_1P8, 1V8           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin71	DSI_DN2	MIPI_DSI1_D2_N	A8	VDD_MIPI_1P8, 1V8
Pin74         GND           Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC         Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND         GND	Pin72	NC			
Pin75         DSI_DN3         MIPI_DSI1_D3_N         A9         VDD_MIPI_1P8, 1V8           Pin76         NC           B9         VDD_MIPI_1P8, 1V8           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC             Pin79         GND	Pin73	DSI_DP2	MIPI_DSI1_D2_P	В8	VDD_MIPI_1P8, 1V8
Pin76         NC           Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin74	GND			
Pin77         DSI_DP3         MIPI_DSI1_D3_P         B9         VDD_MIPI_1P8, 1V8           Pin78         NC         Pin79         GND	Pin75	DSI_DN3	MIPI_DSI1_D3_N	A9	VDD_MIPI_1P8, 1V8
Pin78 NC Pin79 GND	Pin76	NC			
Pin79 GND	Pin77	DSI_DP3	MIPI_DSI1_D3_P	В9	VDD_MIPI_1P8, 1V8
	Pin78	NC			
Pin80 GND	Pin79	GND			
	Pin80	GND			



### 2.2.2. J4 Pinout

# Table 6 J4 Pinout

Pin	Default	BALL_NAME	BALL	NOTE
Pin1	GND			
Pin2	GND			
Pin3	NC			
Pin4	NC			
Pin5	NC			
Pin6	NC			
Pin7	GND			
Pin8	GND			
Pin9	NC			
Pin10	NC			
Pin11	NC			
Pin12	NC			
Pin13	GND			
Pin14	GND			
Pin15	NC			
Pin16	NC			
Pin17	NC			
Pin18	NC			
Pin19	GND			
Pin20	GND			
Pin21	NC			
Pin22	NC			
Pin23	NC			
Pin24	NC			



Pin25	GND			
Pin26	GND			
Pin27	NC			
Pin28	NC			
Pin29	NC			
Pin30	NC			
Pin31	GND			
Pin32	GND			
Pin33	LVDS0_TX0_P	LVDS_D0_P	B5	VDD_LVDS_1P8, 1V8
Pin34	ADC_IN1	ADC_IN1	A20	VDD_ANA_1P8, 1V8
Pin35	LVDS0_TX0_N	LVDS_D0_N	A5	VDD_LVDS_1P8, 1V8
Pin36	ONOFF	ONOFF	A19	NVCC_BBSM, 1V8
Pin37	GND			
Pin38	POR_B	POR_B	A16	NVCC_BBSM, 1V8
Pin39	LVDS0_TX1_P	LVDS_D1_P	B4	VDD_LVDS_1P8, 1V8
Pin40	PMIC_ON_REQ	PMIC_ON_REQ	A17	NVCC_SNVS, 1V8
Pin41	LVDS0_TX1_N	LVDS_D1_N	A4	VDD_LVDS_1P8, 1V8
Pin42	GND			
Pin43	GND			
Pin44	BOOT_MODE0	UART1_TXD	E21	NVCC_AON, 1V8
Pin45	LVDS0_CLK_P	LVDS_CLK_P	В3	VDD_LVDS_1P8, 1V8
Pin46	BOOT_MODE1	UART2_TXD	F21	NVCC_AON, 1V8
Pin47	LVDS0_CLK_N	LVDS_CLK_N	A3	VDD_LVDS_1P8, 1V8
Pin48	BOOT_MODE2	SAI1_TXFS	G21	NVCC_AON, 1V8
Pin49	GND			
Pin50	BOOT_MODE3	SAI1_TXD0	H12	NVCC_AON, 1V8
Pin51	LVDS0_TX2_P	LVDS_D2_P	B2	VDD_LVDS_1P8, 1V8



Pin52	WDOG_B	WDOG_ANY	J18	NVCC_AON, 1V8
Pin53	LVDS0_TX2_N	LVDS_D2_N	A2	VDD_LVDS_1P8, 1V8
Pin54	GND			
Pin55	GND			
Pin56	CLKIN1	CLKIN1	B17	VDD_ANA_1P8, 1V8
Pin57	LVDS0_TX3_P	LVDS_D3_P	c1	VDD_LVDS_1P8, 1V8
Pin58	GND			
Pin59	LVDS0_TX3_N	LVDS_D3_N	B1	VDD_LVDS_1P8, 1V8
Pin60	NC			
Pin61	GND			
Pin62	GND			
Pin63	EXP_CSI1_PWDN	100_3	7	Pin of the PCA9535PW
Pin64	CLKIN2	CLKIN2	A28	VDD_ANA_1P8, 1V8
Pin65	EXP_WL_REG_ON	100_0	4	Pin of the PCA9535PW
Pin66	GND			
Pin67	SD3_CLK	SD3_CLK	V16	NVCC_WAKEUP, 1V8
Pin68	NC			
Pin69	SD3_CMD	SD3_CMD	U16	NVCC_WAKEUP, 1V8
Pin70	GND			
Pin71	SD3_DATA0	SD3_DATA0	T16	NVCC_WAKEUP, 1V8
Pin72	EXP_BT_REG_ON	100_1	5	Pin of the PCA9535PW
Pin73	SD3_DATA1	SD3_DATA1	V14	NVCC_WAKEUP, 1V8
Pin74	EXP_BT_WAKE_DEV	100_2	6	Pin of the PCA9535PW
Pin75	SD3_DATA2	SD3_DATA2	U14	NVCC_WAKEUP, 1V8
Pin76	GPIO2_IO07	GPIO_IO07	L21	NVCC_GPIO, 1V8
Pin77	SD3_DATA3	SD3_DATA3	T14	NVCC_WAKEUP, 1V8
Pin78	GPIO2_IO09	GPIO_IO09	M21	NVCC_GPIO, 1V8



Pin79	GND		
Pin80	GND		

# 2.2.3. J5 Pinout

# Table 7 J5 Pinout

Pin	Default	BALL_NAME	BALL	NOTE
Pin1	GND			
Pin2	GND			
Pin3	I2C1_SCL	I2C1_SCL	C20	NVCC_AON, 1V8
Pin4	UART5_TXD	GPIO_IO00	J21	NVCC_GPIO, 1V8
Pin5	I2C1_SDA	I2C1_SDA	C21	NVCC_AON, 1V8
Pin6	UART5_RXD	GPIO_IO01	J20	NVCC_GPIO, 1V8
Pin7	I2C2_SCL	I2C2_SCL	D20	NVCC_AON, 1V8
Pin8	UART6_RXD	GPIO_IO05	L18	NVCC_GPIO, 1V8
Pin9	I2C2_SDA	I2C2_SDA	D21	NVCC_AON, 1V8
Pin10	UART6_TXD	GPIO_IO04	L17	NVCC_GPIO, 1V8
Pin11	I2C5_SCL	GPIO_IO23	U20	NVCC_GPIO, 1V8
Pin12	UART1_TXD	B1	13	Pin of the LSF0204PWR
Pin13	I2C5_SDA	GPIO_IO22	U18	NVCC_GPIO, 1V8
Pin14	UART1_RXD	UART1_RXD	E20	NVCC_AON, 1V8
Pin15	GND			
Pin16	UART2_TXD	B2	12	Pin of the LSF0204PWR
Pin17	ENET2_RXC	ENET2_RXC	AA3	NVCC_WAKEUP, 1V8
Pin18	UART2_RXD	UART2_RXD	F20	NVCC_AON, 1V8
Pin19	ENET2_TD0	ENET2_TD0	Т8	NVCC_WAKEUP, 1V8
Pin20	GND			



Pin21	ENET2_TD1	ENET2_TD1	U8	NVCC_WAKEUP, 1V8
Pin22	ENET1_nINT	CCM_CLKO1	AA2	NVCC_WAKEUP, 1V8
Pin23	ENET2_TD2	ENET2_TD2	V8	NVCC_WAKEUP, 1V8
Pin24	EXP_GPIO_LED1	IO1_1	14	Pin of the PCA9535PW
Pin25	ENET2_TD3	ENET2_TD3	T10	NVCC_WAKEUP, 1V8
Pin26	ENET2_nINT	CCM_CLKO2	Y3	NVCC_WAKEUP, 1V8
Pin27	ENET2_TX_CTL	ENET2_TX_CTL	AH13	NVCC_WAKEUP, 1V8
Pin28	EXP_RTC_nINT	IO1_7	20	Pin of the PCA9535PW
Pin29	ENET2_TXC	ENET2_TXC	U6	NVCC_WAKEUP, 1V8
Pin30	ENET2_MDC	ENET2_MDC	Y7	NVCC_WAKEUP, 1V8
Pin31	EXP_ENET1_nRST	IO1_4	17	Pin of the PCA9535PW
Pin32	ENET2_MDIO	ENET2_MDIO	AA6	NVCC_WAKEUP, 1V8
Pin33	EXP_ENET2_nRST	IO1_3	16	Pin of the PCA9535PW
Pin34	ENET2_RD0	ENET2_RD0	AA4	NVCC_WAKEUP, 1V8
Pin35	ENET2_RX_CTL	ENET2_RX_CTL	Y4	NVCC_WAKEUP, 1V8
Pin36	ENET2_RD1	ENET2_RD1	Y5	NVCC_WAKEUP, 1V8
Pin37	GND			
Pin38	ENET2_RD2	ENET2_RD2	AA5	NVCC_WAKEUP, 1V8
Pin39	NC			
Pin40	ENET2_RD3	ENET2_RD3	Y5	NVCC_WAKEUP, 1V8
Pin41	CAN1_TXD	PDM_CLK	G17	NVCC_AON, 1V8
Pin42	EXP_GPIO_LED2	IO1_2	15	Pin of the PCA9535PW
Pin43	CAN1_RXD	PDM_BIT_STREAM0	J17	NVCC_AON, 1V8
Pin44	GND			
Pin45	CAN2_TXD	GPIO_IO25	V21	NVCC_GPIO, 1V8
Pin46	ADC_IN2	ADC_IN2	B20	VDD_ANA_1P8, 1V8
Pin47	NC			
	1	1		1



Pin48         ADC_IN3         ADC_IN3         B21         VDD_ANA, 1V8           Pin49         UARTS_RTSO         GPIO_IO03         K21         NVCC_GPIO, 1V8           Pin50         CAN2_RXD         GPIO_IO28         W20         NVCC_GPIO, 1V8           Pin51         GPIO_IO10         M17         NVCC_GPIO, 1V8           Pin52         NC         NVCC_GPIO, 1V8           Pin53         UART5_CTSI         GPIO_IO02         K20         NVCC_GPIO, 1V8           Pin54         NC         NC         NVCC_GPIO, 1V8           Pin55         SAI3_TXC         GPIO_IO16         R21         NVCC_GPIO, 1V8           Pin56         NC         NVCC_GPIO, 1V8         NVCC_GPIO, 1V8           Pin58         SAI3_TXFS         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         NVCC_GPIO, 1V8         Pin63         GPIO2_IO15         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO102         T20         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO102         N20         NVCC_GPIO, 1V8           Pi					
Pin50         CAN2_RXD         GPIO_IO28         W20         NVCC_GPIO, 1V8           Pin51         GPIO1_IO10         GPIO_IO10         N17         NVCC_GPIO, 1V8           Pin52         NC         NC         NVCC_GPIO, 1V8           Pin53         UART5_CTSI         GPIO_IO02         K20         NVCC_GPIO, 1V8           Pin54         NC         NC         NVCC_GPIO, 1V8           Pin55         SAI3_TXC         GPIO_IO16         R21         NVCC_GPIO, 1V8           Pin56         NC         NVCC_GPIO, 1V8         NVCC_GPIO, 1V8           Pin57         SAI3_TXFS         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin58         SAI3_MCLK         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO13<	Pin48	ADC_IN3	ADC_IN3	B21	VDD_ANA, 1V8
Pin51         GPIO1_IO10         GPIO_IO10         N17         NVCC_GPIO, 1V8           Pin52         NC	Pin49	UART5_RTSO	GPIO_IO03	K21	NVCC_GPIO, 1V8
Pin52         NC           Pin53         UART5_CTSI         GPIO_IO02         K20         NVCC_GPIO, 1V8           Pin54         NC	Pin50	CAN2_RXD	GPIO_IO28	W20	NVCC_GPIO, 1V8
Pin53         UART5_CTSI         GPIO_IO02         K20         NVCC_GPIO, 1V8           Pin54         NC         R21         NVCC_GPIO, 1V8           Pin55         SAI3_TXC         GPIO_IO16         R21         NVCC_GPIO, 1V8           Pin56         NC         NVCC_GPIO, 1V8         NVCC_GPIO, 1V8           Pin57         SAI3_TXFS         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8	Pin51	GPIO1_IO10	GPIO_IO10	N17	NVCC_GPIO, 1V8
Pin54         NC           Pin55         SAI3_TXC         GPIO_IO16         R21         NVCC_GPIO, 1V8           Pin56         NC         NC         NVCC_GPIO, 1V8           Pin57         SAI3_TXFS         GPIO_IO26         V20         NVCC_GPIO, 1V8           Pin58         SAI3_MCLK         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         GND         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin52	NC			
Pin55         SAI3_TXC         GPIO_IO16         R21         NVCC_GPIO, 1V8           Pin56         NC         NC         NVCC_GPIO, 1V8           Pin57         SAI3_TXFS         GPIO_IO26         V20         NVCC_GPIO, 1V8           Pin58         SAI3_MCLK         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin68         NC         NVCC_GPIO, 1V8	Pin53	UART5_CTSI	GPIO_IO02	K20	NVCC_GPIO, 1V8
Pin56         NC           Pin57         SAI3_TXFS         GPIO_IO26         V20         NVCC_GPIO, 1V8           Pin58         SAI3_MCLK         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         QPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8	Pin54	NC			
Pin57         SAI3_TXFS         GPIO_IO26         V20         NVCC_GPIO, 1V8           Pin58         SAI3_MCLK         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8	Pin55	SAI3_TXC	GPIO_IO16	R21	NVCC_GPIO, 1V8
Pin58         SAI3_MCLK         GPIO_IO17         R20         NVCC_GPIO, 1V8           Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8	Pin56	NC			
Pin59         SAI3_TXD         GPIO_IO19         R17         NVCC_GPIO, 1V8           Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin57	SAI3_TXFS	GPIO_IO26	V20	NVCC_GPIO, 1V8
Pin60         EXP_HP_DET         IO1_6         19         Pin of the PCA9535PW           Pin61         GND         R18         NVCC_GPIO, 1V8           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin58	SAI3_MCLK	GPIO_IO17	R20	NVCC_GPIO, 1V8
Pin61         GND           Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin59	SAI3_TXD	GPIO_IO19	R17	NVCC_GPIO, 1V8
Pin62         SAI3_RXFS         GPIO_IO18         R18         NVCC_GPIO, 1V8           Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         NC         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin60	EXP_HP_DET	IO1_6	19	Pin of the PCA9535PW
Pin63         GPIO2_IO15         GPIO_IO15         P21         NVCC_GPIO, 1V8           Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         N21         NVCC_GPIO, 1V8           Pin67         GPIO2_IO13         GPIO_IO13         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         NVCC_GPIO, 1V8	Pin61	GND			
Pin64         SAI3_RXD         GPIO_IO20         T20         NVCC_GPIO, 1V8           Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC         N21         NVCC_GPIO, 1V8           Pin67         GPIO2_IO13         GPIO_IO13         N21         NVCC_GPIO, 1V8           Pin68         NC         NC         P20         NVCC_GPIO, 1V8	Pin62	SAI3_RXFS	GPIO_IO18	R18	NVCC_GPIO, 1V8
Pin65         GPIO2_IO12         GPIO_IO12         N20         NVCC_GPIO, 1V8           Pin66         NC              Pin67         GPIO2_IO13         GPIO_IO13         N21         NVCC_GPIO, 1V8           Pin68         NC              Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin63	GPIO2_IO15	GPIO_IO15	P21	NVCC_GPIO, 1V8
Pin66         NC           Pin67         GPIO2_IO13         GPIO_IO13         N21         NVCC_GPIO, 1V8           Pin68         NC         Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin64	SAI3_RXD	GPIO_IO20	T20	NVCC_GPIO, 1V8
Pin67         GPIO2_IO13         GPIO_IO13         N21         NVCC_GPIO, 1V8           Pin68         NC           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin65	GPIO2_IO12	GPIO_IO12	N20	NVCC_GPIO, 1V8
Pin68         NC           Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin66	NC			
Pin69         GPIO2_IO14         GPIO_IO14         P20         NVCC_GPIO, 1V8	Pin67	GPIO2_IO13	GPIO_IO13	N21	NVCC_GPIO, 1V8
	Pin68	NC			
Pin70 NC	Pin69	GPIO2_IO14	GPIO_IO14	P20	NVCC_GPIO, 1V8
	Pin70	NC			
Pin71 NC	Pin71	NC			
Pin72         GPIO1_IO12         SAI1_TXC         G20         NVCC_AON, 1V8	Pin72	GPIO1_IO12	SAI1_TXC	G20	NVCC_AON, 1V8
Pin73 NC	Pin73	NC			
Pin74 GPIO1_IO11 B3 11 Pin of the LSF0204PWR	Pin74	GPIO1_IO11	B3	11	Pin of the LSF0204PWR



Pin75	NC			
Pin76	GPIO1_IO14	SAI1_RXD0	H20	NVCC_AON, 1V8
Pin77	NC			
Pin78	GPIO1_IO13	B4	10	Pin of the LSF0204PWR
Pin79	GND			
Pin80	GND			

# 2.2.4. J6 Pinout

### **Table 8 J6 Pinout**

Pin	Default	BALL_NAME	BALL	NOTE
Pin1	GND			
Pin2	GND			
Pin3	NC			
Pin4	ENET1_MDC	ENET1_MDC	AA11	NVCC_WAKEUP, 1V8
Pin5	NC			
Pin6	ENET1_MDIO	ENET1_MDIO	AA10	NVCC_WAKEUP, 1V8
Pin7	GND			
Pin8	ENET1_TX_CTL	ENET1_TX_CTL	V10	NVCC_WAKEUP, 1V8
Pin9	NC			
Pin10	ENET1_TXC	ENET1_TXC	U10	NVCC_WAKEUP, 1V8
Pin11	NC			
Pin12	ENET1_TD0	ENET1_TD0	W11	NVCC_WAKEUP, 1V8
Pin13	GND			
Pin14	ENET1_TD1	ENET1_TD1	T12	NVCC_WAKEUP, 1V8
Pin15	NC			
Pin16	ENET1_TD2	ENET1_TD2	U12	NVCC_WAKEUP, 1V8



Pin17         NC         ENET1_TD3         ENET1_TD3         V12         NVCC_WAKEUP, 1V8           Pin19         GND               Pin20         ENET1_RX_CTL         ENET1_RX_CTL         V10         NVCC_WAKEUP, 1V8            Pin21         NC                Pin22         ENET1_RXC         ENET1_RXC         AA7         NVCC_WAKEUP, 1V8					
Pin19         GND         ENET1_RX_CTL         ENET1_RX_CTL         V10         NVCC_WAKEUP, 1V8           Pin21         NC	Pin17	NC			
Pin20         ENET1_RX_CTL         ENET1_RX_CTL         V10         NVCC_WAKEUP, 1V8           Pin21         NC         AA7         NVCC_WAKEUP, 1V8           Pin22         ENET1_RXC         ENET1_RXC         AA7         NVCC_WAKEUP, 1V8           Pin23         NC         AA8         NVCC_WAKEUP, 1V8           Pin24         ENET1_RD0         ENET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin25         GND         AA9         NVCC_WAKEUP, 1V8           Pin27         NC         AA9         NVCC_WAKEUP, 1V8           Pin28         ENET1_RD2         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin39         ENET1_RD3         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         AN9         NVCC_WAKEUP, 1V8           Pin32         GND         AN9         NVCC_WAKEUP, 1V8           Pin33         SD2_DATA0         Y10         NVCC_WAKEUP, 1V8           Pin34         SD2_DATA0         Y18         NVCC_SD2           Pin33         SD2_DATA0         Y18         NVCC_SD2, 1V8           Pin34         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin35         SD2_DATA2 <t< td=""><td>Pin18</td><td>ENET1_TD3</td><td>ENET1_TD3</td><td>V12</td><td>NVCC_WAKEUP, 1V8</td></t<>	Pin18	ENET1_TD3	ENET1_TD3	V12	NVCC_WAKEUP, 1V8
Pin21         NC         ENET1_RXC         ENET1_RXC         AA7         NVCC_WAKEUP, 1V8           Pin22         ENET1_RXC         AA7         NVCC_WAKEUP, 1V8           Pin23         NC         AA8         NVCC_WAKEUP, 1V8           Pin25         GND         FORD         FORD           Pin26         ENET1_RD1         ENET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin27         NC         FORD         AA9         NVCC_WAKEUP, 1V8           Pin29         NC         FORD         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin31         GND         FORD         NVCC_WAKEUP, 1V8           Pin32         GND         FORD         NVCC_WAKEUP, 1V8           Pin33         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin34         GND         FORD         FORD           Pin33         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_DATA0         Y18         NVCC_SD2, 1V8           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_DATA2         Y20         NVCC_SD2, 1V8           <	Pin19	GND			
Pin22         ENET1_RXC         ENET1_RXC         AA7         NVCC_WAKEUP, 1V8           Pin23         NC         AA8         NVCC_WAKEUP, 1V8           Pin24         ENET1_RD0         ENET1_RD0         AA8         NVCC_WAKEUP, 1V8           Pin25         GND         Y9         NVCC_WAKEUP, 1V8           Pin26         ENET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin27         NC         AA9         NVCC_WAKEUP, 1V8           Pin28         ENET1_RD2         ENET1_RD3         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         V10         NVCC_WAKEUP, 1V8           Pin32         GND         V10         NVCC_WAKEUP, 1V8           Pin33         SD2_DATA0         Y10         NVCC_WAKEUP, 1V8           Pin34         SD2_DATA0         Y10         NVCC_WAKEUP, 1V8           Pin33         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_DATA0         Y18         NVCC_SD2           Pin35         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin37         SD2_CMD <td>Pin20</td> <td>ENET1_RX_CTL</td> <td>ENET1_RX_CTL</td> <td>V10</td> <td>NVCC_WAKEUP, 1V8</td>	Pin20	ENET1_RX_CTL	ENET1_RX_CTL	V10	NVCC_WAKEUP, 1V8
Pin23         NC         AA8         NVCC_WAKEUP, 1V8           Pin24         ENET1_RD0         ENET1_RD0         AA8         NVCC_WAKEUP, 1V8           Pin25         GND         FINET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin26         ENET1_RD1         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin27         NC         FINET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin29         NC         FINET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD3         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         FINET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin32         GND         FINET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin33         ENET1_RD3         ENET1_RD3         NVCC_WAKEUP, 1V8           Pin34         GND         FINET1_RD3         Y10         NVCC_SD2, 1V8           Pin35         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2, 1V8           Pin36         SD2_DATA1         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin39 <td>Pin21</td> <td>NC</td> <td></td> <td></td> <td></td>	Pin21	NC			
Pin24         ENET1_RD0         AA8         NVCC_WAKEUP, 1V8           Pin25         GND	Pin22	ENET1_RXC	ENET1_RXC	AA7	NVCC_WAKEUP, 1V8
Pin25         GND           Pin26         ENET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin27         NC             Pin28         ENET1_RD2         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin29         NC             Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND             Pin32         GND             Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_DATA1         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin39         GND           NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC              Pin42 <td>Pin23</td> <td>NC</td> <td></td> <td></td> <td></td>	Pin23	NC			
Pin26         ENET1_RD1         ENET1_RD1         Y9         NVCC_WAKEUP, 1V8           Pin27         NC         AA9         NVCC_WAKEUP, 1V8           Pin28         ENET1_RD2         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin29         NC         V10         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         V10         NVCC_WAKEUP, 1V8           Pin32         GND         V10         NVCC_WAKEUP, 1V8           Pin32         GND         V10         NVCC_WAKEUP, 1V8           Pin33         GND         V10         NVCC_WAKEUP, 1V8           Pin34         GND         V10         NVCC_SD2           Pin34         SD2_DATA0         Y18         NVCC_SD2           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin39         GND         V19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8<	Pin24	ENET1_RD0	ENET1_RD0	AA8	NVCC_WAKEUP, 1V8
Pin27         NC         AA9         NVCC_WAKEUP, 1V8           Pin28         ENET1_RD2         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin29         NC         NVCC_WAKEUP, 1V8         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         W         GND           Pin32         GND         W         NVCC_SD2           Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IOO_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin25	GND			
Pin28         ENET1_RD2         ENET1_RD2         AA9         NVCC_WAKEUP, 1V8           Pin29         NC         V10         NVCC_WAKEUP, 1V8           Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         V10         NVCC_WAKEUP, 1V8           Pin32         GND         V10         NVCC_SD2           Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IO0_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         SD2_DATA3         AA20         NVCC_SD2, 1V8	Pin26	ENET1_RD1	ENET1_RD1	Y9	NVCC_WAKEUP, 1V8
Pin29         NC         NC           Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND         NVCC_SD2           Pin32         GND         Y18         NVCC_SD2           Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IOO_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NVCC_SD2, 1V8	Pin27	NC			
Pin30         ENET1_RD3         Y10         NVCC_WAKEUP, 1V8           Pin31         GND            Pin32         GND            Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IO0_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin28	ENET1_RD2	ENET1_RD2	AA9	NVCC_WAKEUP, 1V8
Pin31         GND           Pin32         GND           Pin33         SD2_DATA0         SD2_DATA0           Pin34         SD2_WP         IO0_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin29	NC			
Pin32         GND           Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IOO_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin30	ENET1_RD3	ENET1_RD3	Y10	NVCC_WAKEUP, 1V8
Pin33         SD2_DATA0         SD2_DATA0         Y18         NVCC_SD2           Pin34         SD2_WP         IO0_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NVCC_SD2, 1V8	Pin31	GND			
Pin34         SD2_WP         IO0_6         10         Pin of the PCA9535PW           Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin32	GND			
Pin35         SD2_DATA1         SD2_DATA1         AA18         NVCC_SD2, 1V8           Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         AA20         NVCC_SD2, 1V8	Pin33	SD2_DATA0	SD2_DATA0	Y18	NVCC_SD2
Pin36         SD2_nCD         SD2_CD_B         Y17         NVCC_SD2, 1V8           Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC         NVCC_SD2, 1V8	Pin34	SD2_WP	100_6	10	Pin of the PCA9535PW
Pin37         SD2_DATA2         SD2_DATA2         Y20         NVCC_SD2, 1V8           Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC           Pin42         SD2_DATA3         SD2_DATA3         AA20         NVCC_SD2, 1V8	Pin35	SD2_DATA1	SD2_DATA1	AA18	NVCC_SD2, 1V8
Pin38         SD2_CLK         SD2_CLK         AA19         NVCC_SD2, 1V8           Pin39         GND         V19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         V19         NVCC_SD2, 1V8           Pin42         SD2_DATA3         SD2_DATA3         AA20         NVCC_SD2, 1V8	Pin36	SD2_nCD	SD2_CD_B	Y17	NVCC_SD2, 1V8
Pin39         GND         Y19         NVCC_SD2, 1V8           Pin40         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC         NC           Pin42         SD2_DATA3         SD2_DATA3         AA20         NVCC_SD2, 1V8	Pin37	SD2_DATA2	SD2_DATA2	Y20	NVCC_SD2, 1V8
Pin40         SD2_CMD         SD2_CMD         Y19         NVCC_SD2, 1V8           Pin41         NC	Pin38	SD2_CLK	SD2_CLK	AA19	NVCC_SD2, 1V8
Pin41         NC           Pin42         SD2_DATA3         SD2_DATA3         AA20         NVCC_SD2, 1V8	Pin39	GND			
Pin42 SD2_DATA3 SD2_DATA3 AA20 NVCC_SD2, 1V8	Pin40	SD2_CMD	SD2_CMD	Y19	NVCC_SD2, 1V8
	Pin41	NC			
Pin43 PMIC_32K_OUT	Pin42	SD2_DATA3	SD2_DATA3	AA20	NVCC_SD2, 1V8
	Pin43	PMIC_32K_OUT			



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Pin44	NC		
Pin45	SYS_nRST		
Pin46	NC		
Pin47	VSD_3V3		
Pin48	NC		
Pin49	VSD_3V3		
Pin50	NC		
Pin51	VSD_3V3		
Pin52	NC		
Pin53	VDD_3V3		
Pin54	VDD_1V8		
Pin55	VDD_3V3		
Pin56	VDD_1V8		
Pin57	VDD_3V3		
Pin58	VDD_1V8		
Pin59	VDD_3V3		
Pin60	VDD_1V8		
Pin61	GND		
Pin62	GND		
Pin63	GND		
Pin64	GND		
Pin65	GND		
Pin66	GND		
Pin67	GND		
Pin68	GND		
Pin69	GND		
Pin70	GND		



Pin71	VSYS_5V		
Pin72	VSYS_5V		
Pin73	VSYS_5V		
Pin74	VSYS_5V		
Pin75	VSYS_5V		
Pin76	VSYS_5V		
Pin77	VSYS_5V		
Pin78	VSYS_5V		
Pin79	VSYS_5V		
Pin80	VSYS_5V		