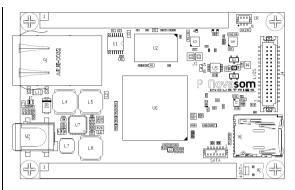
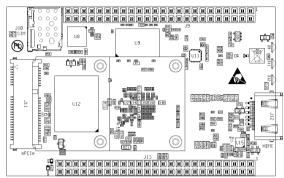


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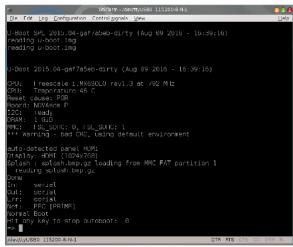
NOVAsomP Quick Start Guide





Quick Start Instructions

Download the basic NOVAsom P file system from www.novasomindustries.com and create a uSD with it. Insert the just written uSD in the J6 slot and connect the serial port to J9 pin 13,14 and 16. Insert an appropriate power source chord in the J5 connector and power it on. After just some half a second you should see your terminal with:



You have your NOVAsom P powered up and running.



On board connector placement and function

Connector	Manufacturer	Connector Type	Mating Connector	Function
J1	JST	BM03B-SRSS-TB(LF)(SN)(P)	SHR-03V-S-B	IR Detector
J2	Abracon	ARJE-0032	Std RJ45 + USB	Ethernet+USB
J3	Jumper	-	-	2 pin header
J4	Hirose	DF13A-30DP-1.25V	DF13-30DS-1.25C	LVDS
J5	CUI Inc.	PJ-002AH-SMT-TR	-	POWER
J6	Hirose	uSD card	_	uSD
J7	JST	BM06B-SRSS-TB(LF)(SN)	SHR-06V-S-B	SATA
J8	Molex	22232021	22013027	CMOS Battery
J9	NP	-	-	48 pin header
J10	JAE	SF72S006VBAR2500	_	nanoSIM
J11	JAE	MM60-52B1-E1-R650	<u>-</u>	mPCle
J12	TE AMP	2-1903015-2	<u>-</u>	HDMI
J13	NP		-	50 pin header

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NOVAsomP Quick Start Guide

J9 Connector pinout

Pin	Signal Name	Primary Function	i.MX6 Ball Location	Power	Color
1	VINHIGH	Input Power	-		
2	NVCC 3V3	3.3V Power	-		
3	GPIO3 IO19		G21	3.3V	
4	NVCC SD3 FROM EXP	Power	-		
5	GPIO4_IO26		R25	3.3V	
6	GPIO3_IO20		G20	3.3V	
7	GPIO4 IO28		R24	3.3V	
8	GPIO4_IO27		R23	3.3V	
9	GPIO1_IO00		T5	3.3V	
10	GPIO4_IO29		R22	3.3V	
11	GPI06_I005		L6	3.3V/1.8V ext	
12	GPIO4_IO14		T6	3.3V	
13	CONSOLE_RS232_TXD		-		
14	CONSOLE RS232 RXD		-		
15	GEN 5V	5V Power	-		
16	GND	Power			
17	AUX RS232 TXD				
18	AUX RS232 RXD	i e			
19	AUD6 TXD		N25	3.3V	
20	AUD6 RXD		P25	3.3V	
21	AUD6 TXFS		N20	3.3V	
22	AUD6_TXC		N21	3.3V	
23	I2C0 SDA		N6	3.3V/1.8V ext	
24	12C0 SCL		N5	3.3V/1.8V ext	
25	UART1 TXD		M1	3.3V/1.8V ext	
26	UART1_RXD		M3	3.3V/1.8V ext	
27	SPDIF OUT		R1	3.3V	
28	UART4_RTS_L		L4	3.3V/1.8V ext	
29	UART4 TXD		M2	3.3V/1.8V ext	
30	UART4 RXD		L1	3.3V/1.8V ext	
31	CANH		-		
32	UART4_CTS_L		L3	3.3V/1.8V ext	
33	CANL	i e			
34	RS485 RX+	i e			
35	RS485 TX-	i e			
36	RS485_RX-	i e			
37	RS485 TX+	i e			
38	USB_OTG_VBUS	i e			
39	USB_OTG_DP	i e			
40	USB_OTG_DN	i e			
41	USB_PWR3	i e			
42	USB PWR2				
43	USBDN DP2				
44	USBDN DM2				
45	USBDN DP3				
46	USBDN DM3				
47	GND	Power			
48	GND	Power			
No.					_

J13 Connector pinout

Pin	Signal Name	Function	i.MX6 Ball	Power	
1	VINHIGH	Input Power			
2	NVCC 3V3	3.3V Power			
3	EXT RESET	System Reset		3.3V	
4	ONOFF IMX6	Power On Signal		3.3V	
5	ECSPI1_MISO	SPI1 MISO	V24	3.3V	
6	ECSPI1_MOSI	SPI1 MOSI	T20	3.3V	
7	ECSPI1 SS0	SPI1 SS0	W24	3.3V	
8	ECSPI1_SCK	SPI1 CLOCK	U22	3.3V	
9	ECSPI2_SS0	SPI2 SS0	V25	3.3V	
10	ECSPI2_SS1	SPI2 SS1	T22	3.3V	
11	ECSPI2 MISO	SPI2 MISO	U24	3.3V	
12	ECSPI2 MOSI	SPI2 MOSI	T21	3.3V	
13	ECSPI2 SCK	SPI2 CLOCK	U23	3.3V	
14	ECSPI3 SCK	SPB CLOCK	P24	3.3V	
15	ECSPI3 MISO	SPI3 MISO	P23	3.3V	
16	ECSPI3 MOSI	SPB MOSI	P22	3.3V	_
17	ECSPI3 SS0	SPB SS0	P21	3.3V	
18	ECSPI3 SS1	SPB SS1	P20	3.3V	$\overline{}$
19	ECSPI4 MISO	SPI4 MISO	E23	3.3V	_
20	ECSPI4 MOSI	SPI4 MOSI	G23	3.3V	
21	ECSPIA SSO	SPI4 SS0	.119	3.3V	
22	ECSPI4 SCK	SPI4 CLOCK	H20	3.3V	
23	I2C3 SCL	I2C3 SCL	F21	3.3V	
24	I2C3 SDA	I2C3 SDA	D24	3.3V	_
25	SD3_CMD	uSD 3 CMD	B13	3.3V/1.8V ext	
26	32KHZ CLK OUT	32KHz Ref Out	R5	3.3V	
27	SD3 CLK	uSD 3 CLK	D14	3.3V/1.8V ext	
28	GND	Power			
29	SD3 DATA0	uSD3 DATA 0	F14	3.3V/1.8V ext	
30	SD3 DATA1	uSD3 DATA 1	F14	3.3V/1.8V ext	
31	SD3 DATA2	uSD3 DATA 2	A15	3.3V/1.8V ext	
32	SD3 DATA3	uSD3 DATA 3	B15	3.3V/1.8V ext	
33	SD3 DATA4	uSD3 DATA 4	D13	3.3V/1.8V ext	
34	SD3_DATA5	uSD3 DATA 5	C13	3.3V/1.8V ext	
35	SD3 DATA6	uSD3 DATA 6	E13	3.3V/1.8V ext	
36	SD3_DATA7	uSD3 DATA 7	F13	3.3V/1.8V ext	
37	CSL D1M	CSLD1 Negative			
38	CSI D1P	CSI D1 Positive			
39	CSI DOM	CSI D0 Negative		-	
40	CSI DOP	CSI D0 Positive			
41	CSI CLK0M	CSI CLK Negative			
42	CSI CLKOP	CSI CLK Positive		-	_
43	CSI D1M	CSI D1 Negative	-		_
44	CSI D1P	CSI D1 Positive	-		_
45	CSI DOM	CSI D0 Negative	-		_
46	CSI DOP	CSI D0 Positive	-		_
47	CSI CLK0M	CSI CLK Negative		-	_
48	CSI CLKOP	CSI CLK Positive	-	-	_
49	NVCC 3V3	3.3V Power		-	
50	GND	Power			

INDUSTRIES

Creating embedded solutions











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On board connectors and pinout

Connector J1							
J1	Mfg	Connector P/N	Function	Pinout	Signal Name		
	JST	BM03B-series	IR Detector	4	IR_DETECT		
				3	3.3V		
				1	GND IR FEEDBACK		
J2	Abracon	ARJE-0032	Ethemet+USB		IK FEEDBACK		
		AUGE-OUGE	Luicinet100D				
J3	Jumper				,		
J4	Hirose	DF13A-30DP-1.25V	LVDS	3	LVDS_BL_POWER LVDS0_TX2_P	LVDS_BL_POWER LVDS0_TX0_P	2
				5	LVDSU_IX2_P	LVDS0_IX0_P	6
				7	LVDS0_TX2_N	LVDS0_TX1_P	8
				9	LVDS0_TX3_N	LVDS0_TX1_N	10
				11	LVDS1_TX0_N	LVDS0_CLK_P	12
				13	LVDS1_TX0_P	LVDS0_CLK_N	14
				15	LVDS1_TX1_P	LVDS1_CLK_P	16
				17	LVDS1_TX1_N	LVDS1_CLK_N	18
				19	LVDS1_TX2_N	LVDS1_TX3_N	20
				21	LVDS1_TX2_P	LVDS1_TX3_P	22
				23	LVDS_POWER	LVDS_POWER	24
				25	GND	GND	26
				27	BL_PWM	12C3_SCL	28
J5	CUI Inc.	PJ-002AH-SMT-TR	POWER	29	TOUCH_IRQ VIN	I2C3_SDA	30
35	COI IIIC.	FJ-002AH-3MT-TK	POWER	2	GND		
J6	Hirose	uSD card	uSD	1	DATA2		
30		, Japanes	. 200	2	DATA3		
l				3	CMD		
l				4	VDD		
l				5	CLK		
l				6	VSS		
l				7	DATA0		
17	IOT	DMOCD corino	CATA	8	DATA1 VCC		
J7	JST	BM06B-series	SATA	2	VCC RXP		
l				3	RXN		
l				4	TXN		
l				5	TXP		
				6	GND		
J8	Molex	22232021	Battery	1	VBAT+		
				2	GND		
J9	NP		48 pin header				
J10	JAE	SF72S006VBAR2500	nanoSIM	1	SIM VCC		
				3	SIM RST SIM CLK		
				5	SIM CLK GND		
				6	SIM VPP		
		AMAGO CODA E4 DOCO	001-	6 7	SIM VPP SIM I/O	0.004	
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1	SIM VPP SIM VO WAKE#	3.3V	2
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3	SIM VPP SIM VO WAKE# Reserved	GND	4
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7	SIM VPP SIM VO WAKE#	3.3V GND 1.5V SIM VCC	2 4 6 8
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7	SIM VPP SIM VO WAKE# Reserved Reserved Reserved GND	GND 1.5V SIM VCC SIM VO	4 6
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7 9	SIM VPP SIM VO WAKE# Reserved Reserved Reserved GND REFCLK-	GND 1.5V SIM VCC SIM VO SIM CLK	4 6 8 10
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7 9 11	SIM VPP SIM VP SIM VO WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK-	GND 1.5V SIM VCC SIM VO SIM CLK SIM RST	4 6 8 10 12
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7 9 11 13 15	SIM VPP SIM I/O WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK+ GND	GND 1.5V SIM VCC SIM VO SIM CLK SIM RST SIM VPP	4 6 8 10 12 14 16
J11	JAE	MM60-52B1-E1-R650	mPCie	6 7 1 3 5 7 9 11 13 15	SIM VPP SIM VO WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK- GND Reserved	GND 1.5V SIM VCC SIM VO SIM CLK SIM RST SIM VPP GND	4 6 8 10 12 14 16
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 7 9 11 13 15 17 19	SIM VPP SIM I/O WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK- GND Reserved Roserved Roserved Roserved	GND 1.5V SIM VCC SIM VC SIM VC SIM VC SIM RST SIM RST SIM VPP GND W_DISABLE#	4 6 8 10 12 14 16 18
J11	JAE	MM60-52B1-E1-R650	mPCie	6 7 1 3 5 7 9 11 13 15 17 19 21	SIM VPP SIM VO WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK- GND Reserved	GND 1.5V SIM VCC SIM VC	4 6 8 10 12 14 16
J11	JAE	MM60-52B1-E1-R650	mPCie	6 7 1 3 5 7 9 11 13 15 17 19 21 23 25	SM VPP SIM I/O SIM I/O WAKE# Reserved R	GND 1.5V SIM VCC SIM VC SIM VC SIM CLK SIM RST SIM RPT SIM WPP GND W_DISABLE# PERST# +3.3Vaux GND	4 8 10 12 14 16 18 20 22 24 24
J11	JAE	MM60-5281-E1-R650	mPCle	6 7 7 1 3 5 5 7 9 9 111 13 15 17 19 21 23 25 27	SM VPP SM VP SM VP SM VP WAKE Reserved Reserved ROP REFCLK	GND 1.5V SIM VCC SIM VO SIM CIK SIM RST SIM VPP GND W_DISABLE# PERST# +3.3Vaux GND +1.5V	4 8 10 12 14 16 18 20 22 24 24 28
J11	JAE	MM60-5281-E1-R650	mPCle	6 7 1 3 5 5 7 9 9 11 11 13 15 15 17 19 21 23 25 27 29	SM VPP SM IO SM IO WAKE# Reserved Reserved Reserved Reserved Reserved REFCLK- GND REFCLK- GND REFCN- Reserved Reserved Reserved Reserved Roserved R	GND 1.5V SIM VCC SIM VC SIM VC SIM VC SIM CLK SIM RST SIM CLK SIM RST SIM VPP GND W_DISABLE# PERST# +3.3 Yaux GND +1.5V SIM CLK SIM SIM CLK	4 6 8 10 12 14 16 18 20 22 24 26 28 30
J11	JAE	MM60-5281-£1-R650	mPCle	6 7 7 9 11 13 15 17 19 21 23 25 27 29 31 1	SM VPP SM IO SM IO WAKE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved REFCLK- REFCLK	GND 1.5V SIM VCC SIM VC SIM VC SIM CLK SIM CLK SIM CS SIM ST SIM VPP GND W _DISABLE# PERST# +3.3Vallx GND +1.5V SIMB_CLK SIMB_CLK SIMB_CLK SIMB_DATA	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32
J11	JAE	MM60-5281-E1-R650	mPCle	6 7 1 3 5 5 7 9 111 13 15 15 17 19 21 22 25 27 29 31 33 33	SMI VPP SMI VP WAKE# Reserved Reserved Reserved GND REFCLK- REFCLK- GND Reserved OPERO GND GND Reserved GND	GND 1.5V SIM VCC SIM VCC SIM IO SIM CLK SIM RST SIM VPP GND W_DISABLE# PERST# +3.3Vaux GND +1.5V SMB_CLK SMB_DATA GND	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
J11	JAE	MM60-5281-E1-R650	mPCla	6 7 1 3 5 5 7 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SBM VPP WAKE # Reserved Reserved Reserved Reserved GND	GND 1.5V SIM VCC SIM VCC SIM CLK SIM CLK SIM RST SIM RST SIM VPP GND VPD W_DISABLE# PERST# +3.3Vaxx GND +1.5V SIMB_DATA GND USS_D- USS_D-	4 6 8 10 112 14 16 18 20 22 24 24 26 28 30 32 34 36
J11	JAE	MM60-5281-E1-R650	mPCie	6 7 1 3 5 5 7 9 11 11 13 15 15 17 19 19 21 22 22 22 25 22 33 33 35 37 37	SM VP SM VP SM VP WAKE Reserved Reserved Reserved Reserved Reserved GAN REFCLK+ GAN REFCLK+ GAN REFCLK- GAN Reserved GAN Reserved GAN Reserved GAN GAN GAN PERO GAN	GND 1.5V SIM VCC SIM VCC SIM VCC SIM VCC SIM CLK SIM CLK SIM CLK SIM ST SIM VPP GNO O O O O O O O O O O O O O O O O O O	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
J11	JAE	MM60-5281-E1-R650	mPCie	6 7 1 3 5 5 7 9 11 13 15 15 17 17 19 12 12 22 22 27 29 31 33 33 35 37 39	SM VPP SM VPP WAKE # Reserved Reserved Reserved Reserved RANGE # RESERVED	GND 1.5V SIM VCC SIM VCC SIM VCO SIM CLK SIM RST SIM R	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
J11	JAE	MM60-52B1-E1-R650	mPCle	6 7 1 3 5 5 7 9 11 11 13 15 15 17 19 19 21 22 22 22 25 22 33 33 35 37 37	SM VPD WAKE Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved REFCLK GND	GND 1.5V SIM VCC SIM VCC SIM VCC SIM VCK SIM VCK SIM VCK SIM VCF SIM VCF GND V_DISABLE# PERST# +3.8VM GND +1.5V SIM GLK SIM CLK SIM CL	4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
J11	JAE	MM60-5281-E1-R650	mPCile	6 7 7 1 1 3 3 5 5 7 7 9 9 111 13 15 15 7 7 9 11 12 23 25 27 27 29 31 33 35 35 37 39 9 4 14 43 45 45	SM VPD WINGE Reserved Reserved Reserved REFLIK ROSP REFLIK REFLI	GND 1.5V SM VCC	4 6 8 10 12 14 16 18 20 22 24 24 28 30 32 32 34 36 38 40 42 44 44
111	JAE	MM60-52B1-E1-R650	mPCle	6 7 7 1 1 3 3 5 5 7 7 9 9 9 9 9 9 11 11 13 13 15 17 17 19 21 22 22 22 22 22 23 31 33 33 33 33 34 14 45 45 47	SM VPP WAKEE Reserved Reserved Reserved Reserved Reserved REFCLK	QND SM VCC SM VCC SM VCC SM VCC SM VCK SM VCK SM VCK SM VCC S	4 6 8 10 12 14 16 18 20 22 24 24 28 38 38 38 49 40 42 44 46 48
311	JAE	MM60-5281-E1-R650	mPCie	6 7 7 1 1 3 3 5 5 7 7 9 9 111 13 13 15 17 7 19 21 22 25 22 7 29 3 33 33 33 33 33 34 44 44 43 44 44 44 4	SM VPP SM VPP WAKEE Reserved Reserved Reserved REFCLK RE	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM VPP GND SM CK SM CK SM CK SM CK SM CK SM CM S	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 1 3 3 6 5 7 7 9 9 1111 13 13 11 17 17 17 17 17 17 17 17 17 17 17 17	SM VPP WAKE Reserved Reserved Reserved Reserved Reserved Reserved REFCLK GND REFCLK GND REFCLK GND PETRO PETRO GND AUD3.TNCT* AUD3.TNCT* AUD3.TNCT* AUD3.TNCT* AUD3.TNCT* AUD3.TNCT*	QND SM VCC SM VCC SM VCC SM VCC SM VCK SM VCK SM VCK SM VCC S	4 6 8 10 12 14 16 18 20 22 24 24 28 38 38 38 49 40 42 44 46 48
J11	JAE TE AMP	MM60-5281-E1-R650	mPCle	6 7 7 1 1 3 3 5 5 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SM VPP WAKE RESERVED WAKE RESERVED RESERVED RESERVED REFCLIA GAN REFCLIA GAN GAN FETO FETO FETO GAN AUD.S. RACO AUD.S. R	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM VPP GND SM CK SM CK SM CK SM CK SM CK SM CM S	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 1 3 3 5 5 7 9 9 11 11 13 13 11 15 12 12 12 12 12 12 12 12 12 12 12 12 12	SM VPP WAKE # Reserved Reserved Reserved RECLIA RECLIA RECLIA RECLIA RECLIA RESERVED RECLIA RESERVED RECLIA RESERVED RECLIA RESERVED RESERVE	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM VPP GND SM CK SM CK SM CK SM CK SM CK SM CM S	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 1 3 3 6 5 7 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SM VPD WAKEE Reserved Reserved Reserved REFCLK- REFCLK- REFCLK- REFCLK- RON REFCLK- RON REFCLK- RON REFCLK- RON RON REFCLK- RON RON REFCLK- RON	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM VPP GND SM CK SM CK SM CK SM CK SM CK SM CM S	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 1 3 3 5 5 7 9 9 11 11 13 13 11 15 12 12 12 12 12 12 12 12 12 12 12 12 12	SM VPP WAKE # Reserved Reserved Reserved RECLIA RECLIA RECLIA RECLIA RECLIA RESERVED RECLIA RESERVED RECLIA RESERVED RECLIA RESERVED RESERVE	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 3 3 5 5 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	SM VPP WAKE # Reserved # Reserved # Reserved # REFLEX # RESERVED # REFLEX # RESERVED # REFLEX # RESERVED # RES	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 3 3 5 5 7 7 9 9 9 11 11 11 11 11 11 11 11 11 11 11	SM VPO WAKEE Reserved Reserved Reserved Reserved Reserved Reserved REFCLK REFCLK REFCLK REFCLK REFCLK REFCLK REFCLK REFCLK ROD RESERVED R	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 40 44 44 46 48
				6 7 7 1 1 3 3 5 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SM VPD WAKEE Reserved Reserved Reserved REFCLK- REFCLK- REFCLK- REFCLK- RON REFCLK- RON REFCLK- RON REFCLK- RON REFCLK- RON RON REFCLK- RON	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 38 40 42 44 46 48
				6 7 7 1 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPP WAKEE Reserved Reserved Reserved REFELK REF	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 38 40 42 44 46 48
				6 7 7 1 1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPO WAKEE RASEOVED RASEOVED RASEOVED RASEOVED RASEOVED REFCLIC REF	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 38 40 42 44 46 48
				6 7 7 1 1 3 3 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SM VPD WASSENS TO THE	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 23 30 32 33 40 40 42 44 46 48
				6 7 7 1 1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPD WAKE # Reserved Reserved Reserved Reserved Reserved REFLIK REFLI	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 23 30 32 33 40 40 42 44 46 48
				6 7 7 1 1 3 3 6 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SM VPD WAKEE Reserved Reserved Reserved Reserved Reserved Reserved REFCLK REFCLK REFCLK RON REFCLK RON REFCLK RON	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 23 30 32 33 40 40 42 44 46 48
				6 7 7 1 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPD WAKEE Reserved Reserved Reserved REFELK RON REFELX RON RON REFELX RON RON REFELX RON	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 23 30 32 33 40 40 42 44 46 48
				6 7 7 1 1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPD WAKEE Reserved Reserved Reserved Reserved Reserved REFCLK	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 38 40 42 44 46 48
				6 7 7 1 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SM VPD WAKEE Reserved Reserved Reserved REFELK RON REFELX RON RON REFELX RON RON REFELX RON	GND SM VPC SM VPC SM VPC SM VPC SM VPC SM VPC SM CK SM CK SM CK SM CK SM CK SM VPP GND SM CK	4 6 8 10 12 14 16 18 20 22 24 24 28 30 30 32 34 36 38 40 42 44 46 48
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