2017-2018 Industrial Computing Board

Pistachio Series

Stylish:
Pistachio is an ARM based industrial grade single board computer with open source software, so it is very flexible.

- ✓ NXP ARM-Cortex A9 i.MX6 800MHz
- ✓ Industrial design
- ✓ All in one design
- ✓ -30~70°C operating temperature
- ✓ 9-36 VDC Input
- ✓ Full Open Source Support on Linux base OS
- ✓ Hardware testing before shipping
- ✓ Long Life time support: 5 years

TECHNICAL SUPPORT

Wig Cheng, NutsBoard developer

nutsboard@gmail.com

http://www.nutsboard.org

DISTRIBUTORS

Asia

Watson Wang, MQTech Sales

Latin America

José Pablo lopez, MQTech Sales

sales@mayqueentech.com

http://www.mayqueentech.com

Global

Ted Lin, EmbedKits sales

tedjackyx@gmail.com

https://ez-maker.com

Diversity Software Applications

NutsBoard Pistachio series come with fully open source code and runtime image for the different applications, supporting operating systems as following:

- ✓ U-boot 2015.04
- ✓ Linux Kernel 4.1.15 and 4.9.11-LTS (5 years support)
- ✓ Linux Kernel mainline LTS support
- ✓ Standard OS support:
  - ➢ Android 7.1 or above
  - ➢ Debian 9 or above
  - ➢ Yocto 2.2 or above
- ✓ NutsBoard featured OS support:
  - ➢ BuildRoot 201708 with Web-of-Things Framework
- ✓ All releases supporting 5 years update and maintenance

NutsBoard Pistachio series also supporting features functions and middleware:

- ✓ Multiple LVDS panels support for HMI applications
- ✓ Operating System optimization
- ✓ Operating System virtualization
- ✓ Real-Time Linux technology support
- ✓ Supporting software libraries for Industrial protocols

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Pistachio Hardware Specifications

Specifications	Pistachio	Pistachio-Lite	Pistachio-LiteLite
System			
CPU	NXP ARM Cortex-A9 IMX6 Quad 800MHz	NXP ARM Cortex-A9 IMX6 Dual 1GHz	NXP ARM Cortex-A9 IMX6 Dual 800MHz
Memory	2GB LPDDR3	1GB LPDDR3	512MB LPDDR3
Storage	4GB eMMC	4GB eMMC	4GB eMMC
PMIC	NXP PFUZE100	NXP PFUZE100	NXP PFUZE100
WiFi/Bluetooth	802.11a/b/g/n, BT v4.2	802.11a/b/g/n, BT v4.2	
RTC	x1	x1	
Power input range	9-36 Volt	9-36 Volt	9-36 Volt
I/O			
Network	10/100/1000Mb RGMII Ethernet	10/100/1000Mb RGMII Ethernet	10/100/1000Mb RGMII Ethernet
USB Host	x4	x4	x2
Serial Port	RS232/422/485 x1, RS232 x3 (one is debug console)	RS232/422/485 x1, RS232 x1 for debug console	RS232/422/485 x1, RS232 x3 (one is debug console)
CAN bus	x1	x1	
I2C	x1	x2	x2
PWM	x1	x1	x1
Resistive Touch	x1		
Audio	x1 with class D Amplifier	x1 with class D Amplifier	
SD slot	x1	x1	x1
GPIO	x4 (5 Volt)	x4 (5 Volt)	x4 (5 Volt)
Display	LVDS x1, VGA x1 (24-bit RGB), FHD x1	LVDS x1, VGA x1 (24-bit RGB)	VGA x1 (24-bit RGB)
SATA	x1		
mPCIE	x1, SIM card slot x1		
Environmental			
Dimension	148 x 102mm		
Certification	Compliant with RoHS/REACH directives		
Environment Test	EMI-Class B, EMC-Surge 4kv for pre-testing		

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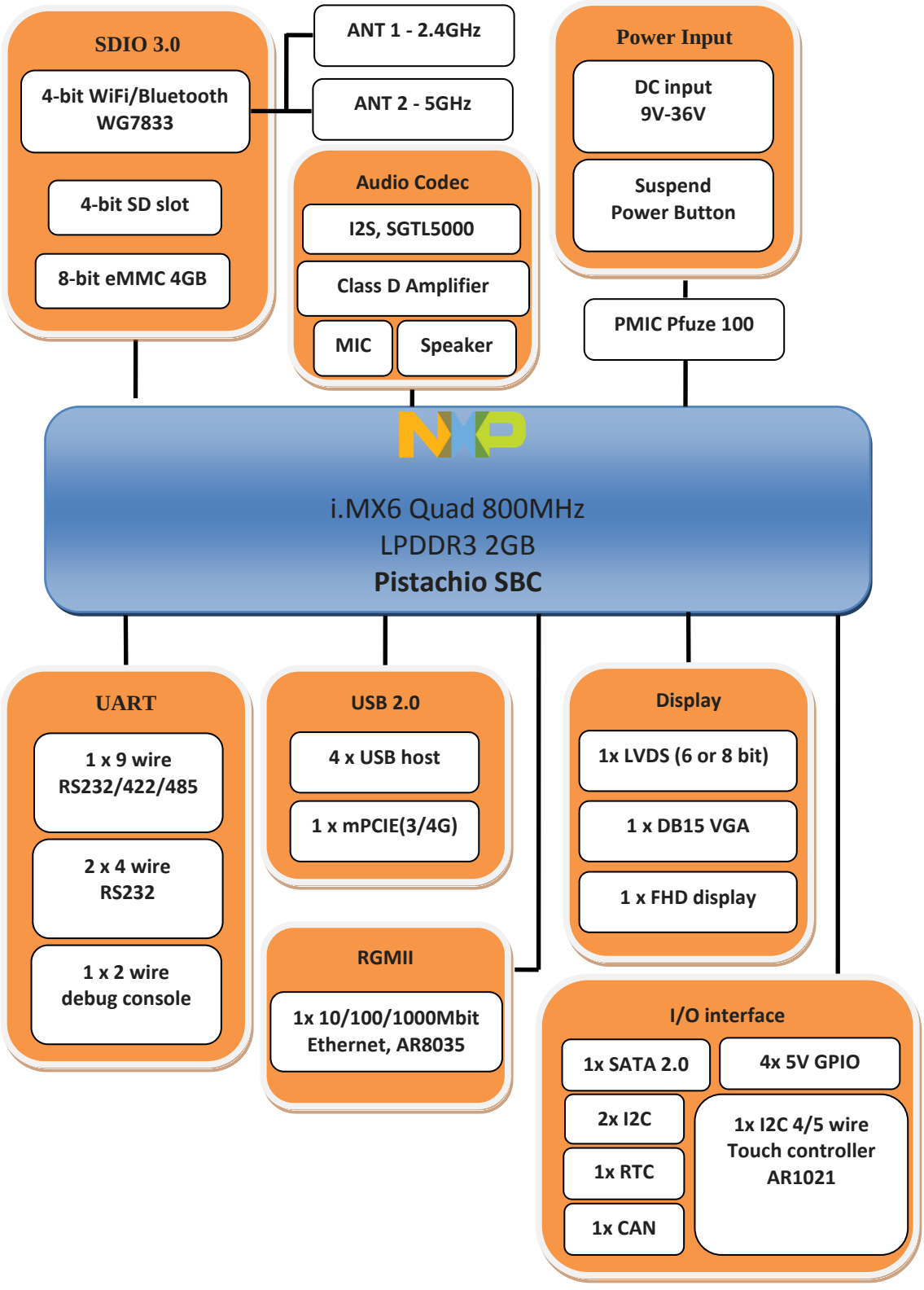
Pistachio Block Diagram



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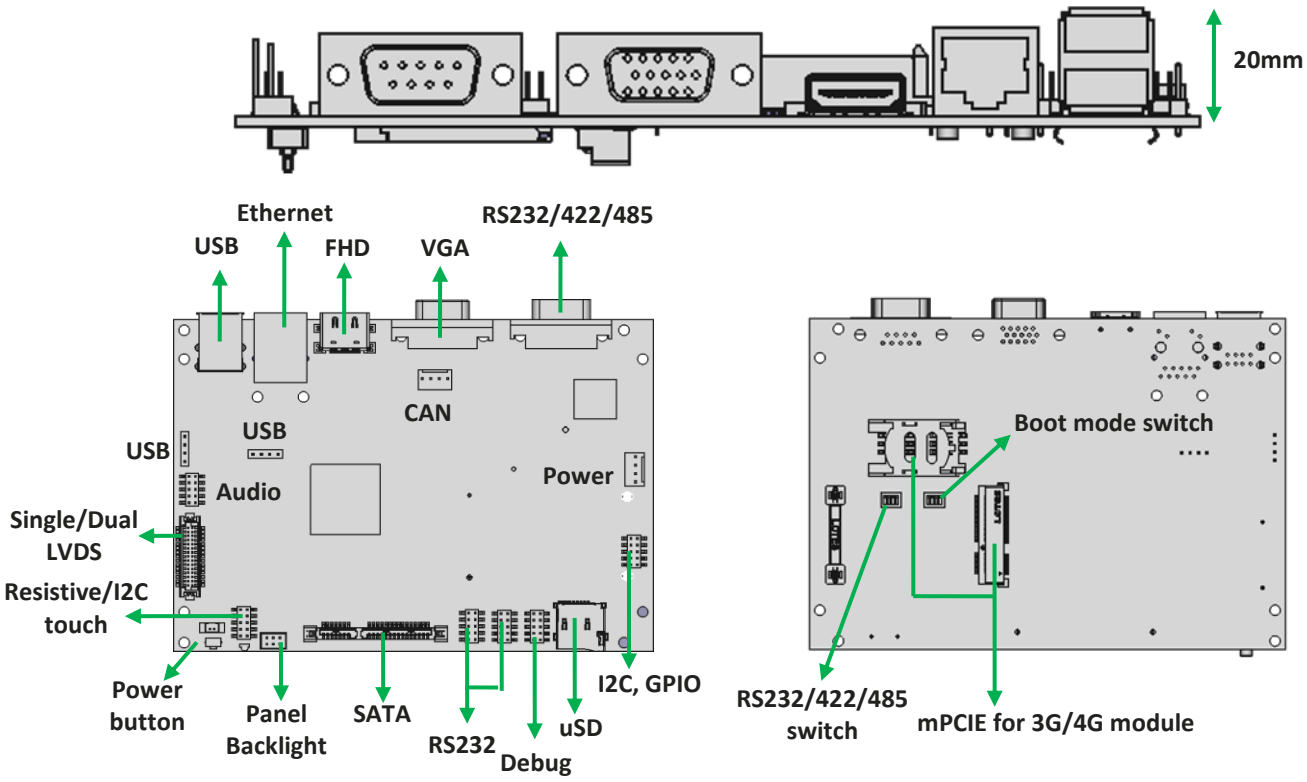
Pistachio Outline Dimension

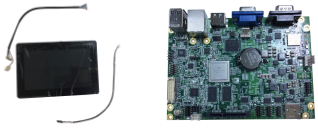


Ordering Information:

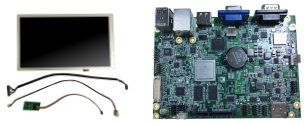
Part No.	Description
Pistachio-D2048-WB	Quad-core, 2G RAM, WiFi/Bluetooth
Pistachio-Lite-D1024-WB	Dual-core, 1G RAM, WiFi/Bluetooth
Pistachio-LiteLite-SMX6D-D512	Dual-core, 512MB RAM

Part No.	Description
Pistachio-P7-Kit	Pistachio, 7" LVDS panel (1024x600, 6-bit) with PCAP touch.
Pistachio-P10-Kit	Pistachio, 10" LVDS panel (1024x600, 6-bit) with 5-wire resistive touch.
Pistachio-Lite-P7-Kit	Pistachio-Lite, 7" LVDS panel (1024x600, 6-bit) with PCAP touch.

7" Panel-Kit



10" Panel-Kit



Red color means coming soon.

http://www.nutsboard.org
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Please contact us and discuss for your applications