### **Pistachio Series**

#### TECHNICAL SUPPORT

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#### DISTRIBUTORS

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### 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











### **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
- ✓ Android 7.1.1 and above
- ✓ Debian 9.1-Lite and Debian 9-LXDE Desktop
- ✓ Yocto 2.2 and above
- ✓ BuildRoot 201611 and above
- ✓ 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



# **Pistachio Hardware Specifications**

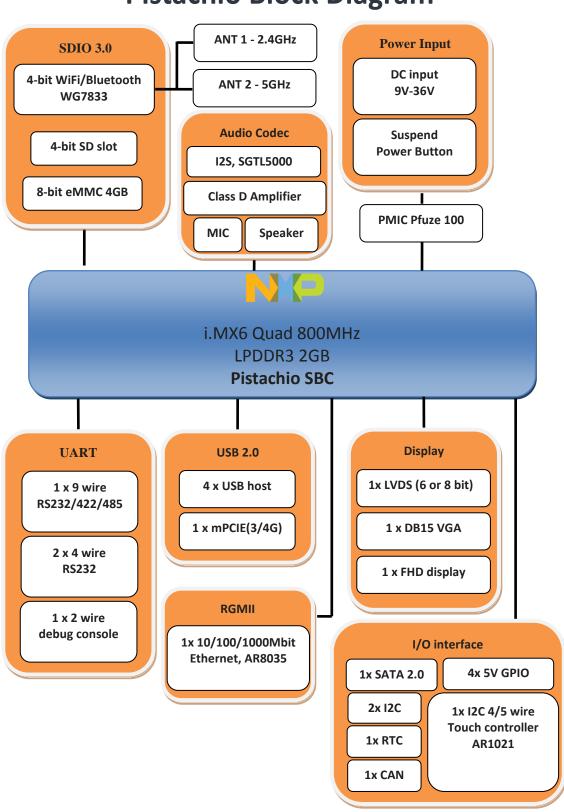




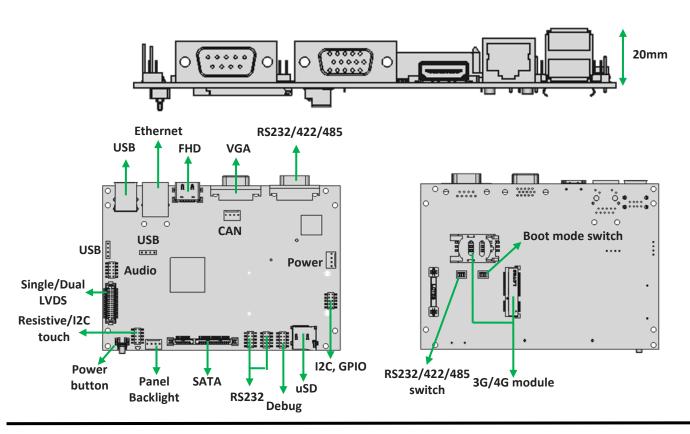


| Specifications    | Pistachio   | Pistachio-Lite                                  | Pistachio-LiteLite                                    |
|-------------------|---|---|---|
| System            |   |   |   |
| СРИ               | NXP ARM Cortex-A9 IMX6<br>Quad 800MHz                 | NXP ARM Cortex-A9 IMX6 Dual<br>1GHz             | NXP ARM Cortex-A9 IMX6 Dual<br>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 (default is no coin battery)                       | x1 (default is no coin battery)                 |   |
| Power input range | 9-36 Volt   | 9-36 Volt                                       | 9-36 Volt   |
| I/O               |   |   |   |
| Network           | 10/100/1000Mb RGMII<br>Ethernet                       | 10/100/1000Mb RGMII<br>Ethernet                 | 10/100/1000Mb RGMII<br>Ethernet                       |
| USB Host          | x4  | x4  | x4  |
| Serial Port       | RS232/422/485 x1, RS232 x3<br>( one is debug console) | RS232/422/485 x1, RS232 x1<br>for debug console | RS232/422/485 x1, RS232 x3<br>( one is debug console) |
| CAN bus           | x1  | x1  |   |
| I2C               | x2  | 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),<br>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   | 148 x 102mm                                     | 148 x 102mm   |
| Certification     | EMI, EMC for pre-testing                              | EMI, EMC for pre-testing                        | EMI, EMC for pre-testing                              |

## Pistachio Block Diagram



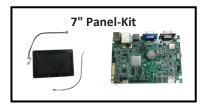
## **Pistachio Outline Dimension**

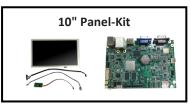


### **Ordering Information:**

| 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.         |





Red color means coming soon. http://www.nutsboard.org nutsboard@gmail.com Please contact us and discuss for your applications