Pisum 15.6" Series

Stylish:

Pisum is an ARM based industrial grade Panel computing with open source software, so it is very flexible.

- ✓ 15" LVDS HD panel (1366x768)
- ✓ NXP ARM-Cortex A9 i.MX6 1GHz
- ✓ Industrial design
- ✓ All in one design
- ✓ 0~40°C operating temperature
- ✓ Full Open Source Support on Linux base OS
- ✓ Hardware testing before shipping
- ✓ Long Life time support: 5 years

Diversity Software Applications

NutsBoard Pisum 15.6" 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 9.1-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 display support for HMI applications
- ✓ Operating System optimization
- ✓ Operating System virtualization
- ✓ Real-Time Linux technology support
- ✓ Supporting software libraries for Industrial protocols

TECHNICAL SUPPORT

Wig Cheng, NutsBoard developer

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http://www.nutsboard.org

DISTRIBUTORS

Asia

Irene Hung, Ying Tchin Electronic sales

sale3@yingtchin.com.tw

http://www.yingtchin.com.tw

US

Henry Chang, EmbedKits FAE

mr.changyuheng@gmail.com

https://ez-maker.com

Global

Ted Lin, EmbedKits sales

tedjackyx@gmail.com

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Pisum Hardware Specifications

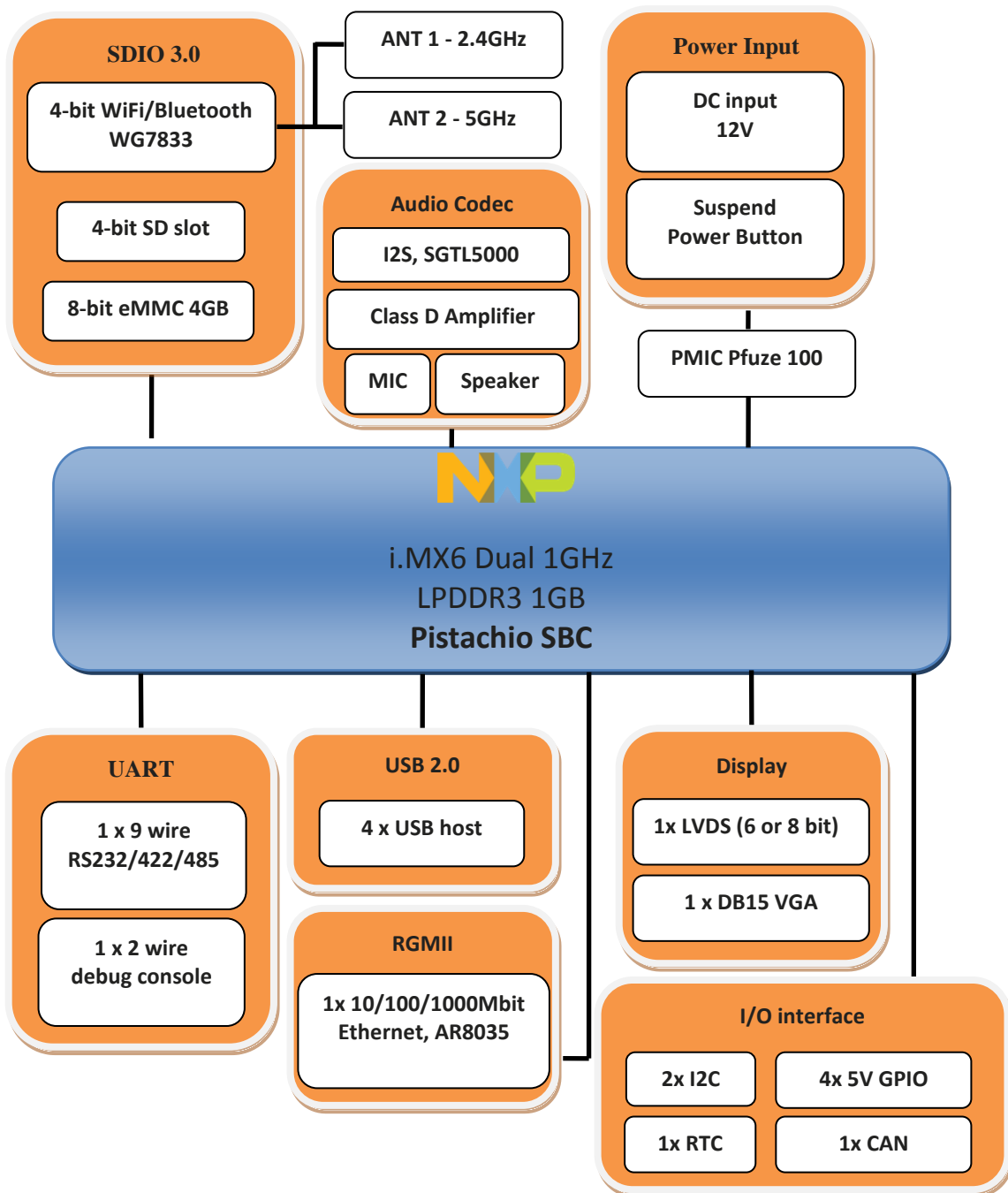| Specifications	Pisum
System	
CPU	NXP ARM Cortex-A9 IMX6 Dual 1GHz
Memory	1GB LPDDR3
Storage	4GB eMMC
PMIC	NXP PFUZE100
WiFi/Bluetooth	802.11a/b/g/n, BT v4.2
RTC	x1 (default is no coin battery)
Power input range	12 Volt
I/O	
Network	10/100/1000Mb RGMII Ethernet
USB Host	x4
Serial Port	RS232/422/485 x1, debug console x1
CAN bus	x1
I2C	x2
PWM	x1
Audio	x1 with class D Amplifier
SD slot	x1
GPIO	x4 (5 Volt)
Display	LVDS x1, VGA x1 (24-bit RGB)
Environmental	
Dimension	383(W) x 238(H) x 83.8(D) mm
Certification	EMI, EMC pre-testing

Rugged Touchscreen Display:

Pisum is combine NutsBoard Pistachio-Lite with stable metal case and HD display panel.

- ✓ Interface: LVDS
- ✓ Screen diagonal: 15.6 inch
- ✓ Display Area: 344.232(H) x193.536(V)
- ✓ Resolution: 1366(H)x768(V) mm
- ✓ Pixel Pitch: 0.252(H) x 0.252(V) mm
- ✓ Display Mode: TN Mode, Normally White
- ✓ Color depth: 8 bit
- ✓ Touch: PCAP USB Capacitive touch
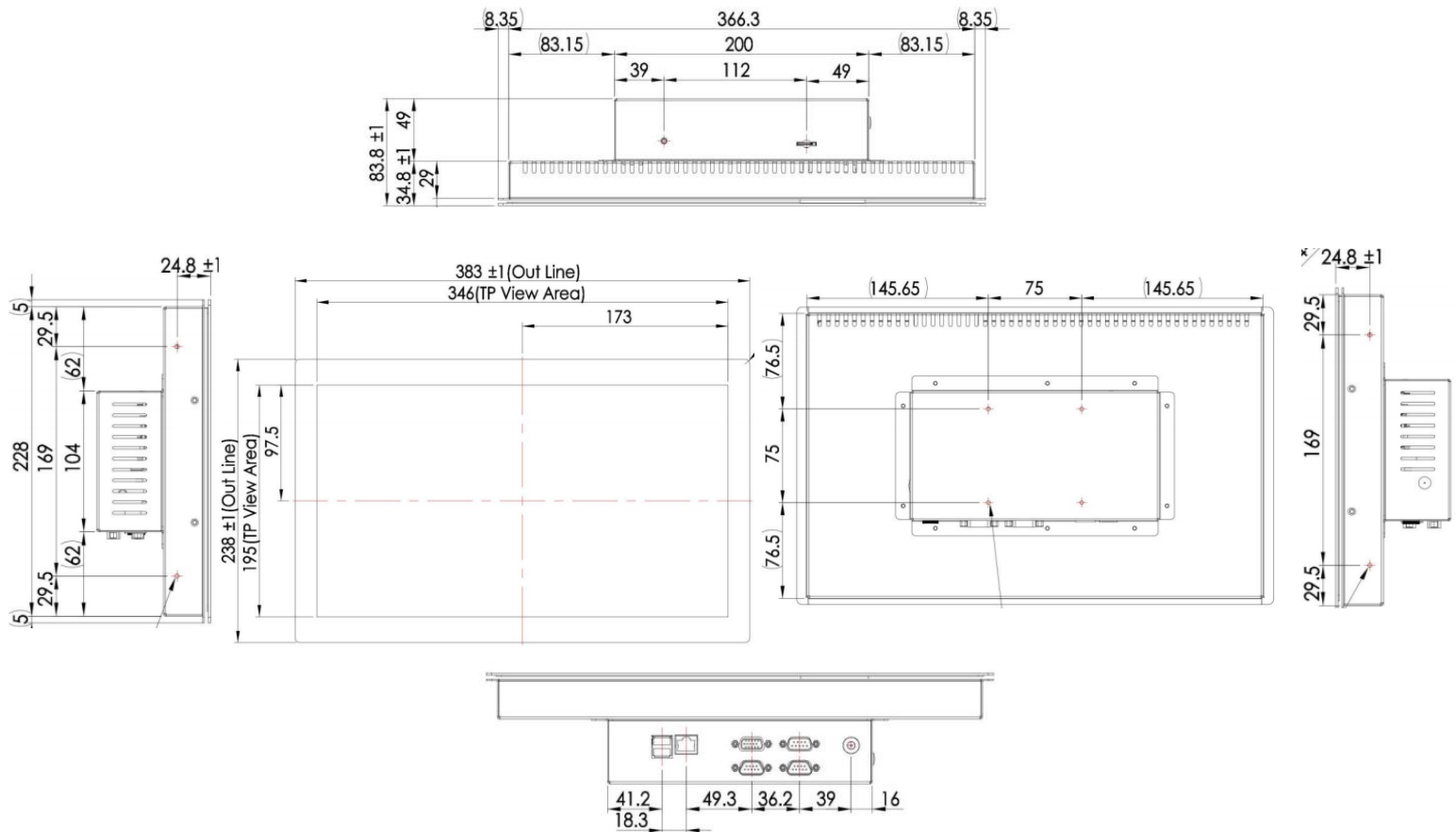- ✓ RoHS Compliance

Pisum Block Diagram

SDIO 3.0
- 4-bit WiFi/Bluetooth WG7833
- 4-bit SD slot
- 8-bit eMMC 4GB

ANT 1 - 2.4GHz

ANT 2 - 5GHz

Audio Codec
- I2S, SGTL5000
- Class D Amplifier
- MIC | Speaker

Power Input
- DC input 12V
- Suspend Power Button

PMIC Pfuze 100

i.MX6 Dual 1GHz
LPDDR3 1GB
Pistachio SBC

UART
- 1 x 9 wire RS232/422/485
- 1 x 2 wire debug console

USB 2.0
- 4 x USB host

RGMII
- 1x 10/100/1000Mbit Ethernet, AR8035

Display
- 1x LVDS (6 or 8 bit)
- 1 x DB15 VGA

I/O interface
- 2x I2C | 4x 5V GPIO
- 1x RTC | 1x CAN

Pisum Outline Dimension

Ordering Information:

Part No.	Description
Pisum -MX6D-P156	Dual-core, 1G RAM, WiFi/Bluetooth with 15.6" LVDS Panel PC

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