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-LABORATORIES-

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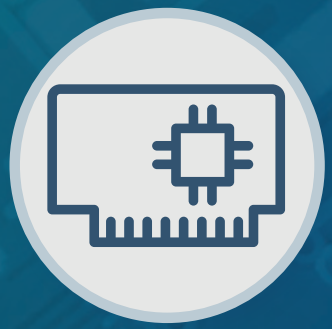
Electronic Design

Panel PC / HMI



Single Board Computer

Industrial PC

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Features

- ARM Based HMI
- Fanless design
- Flat front panel touch screen
- Freescale i.MX6 DualLite ARM Cortex A9 processor
- Onboard 1GB DDR3 DRAM
- Onboard 4GB eMMC Flash
- DC 9~36V wide-ranging power input
- LED backlight LCD
- Resistive touch window/Projected capacitive touch

Specifications

System	
CPU	Freescale i.MX6 Dual Lite,ARM Cortex A9(2x Cores,1.0GHz)
System Chipset	NA
Memory	Onboard 1GB DDR3 SDRAM

External IO Port	
USB	2 x USB 2.0 type A 1 x USB 2.0 (Micro B Type)
Serial / Parallel	1 x RS-232/422/485 DB9 , default RS-232
LAN	1 x GbE LAN RJ-45 (POE for option)
Audio	1 x Speaker-out(Optional)
Power	1 x 3-pin terminal block connector
Option	TB-508CAN1 TB-508C1

Storage Space	
HDD	Onboard 4GB eMMC NAND Flash
Movable device	1 x micro SD slot

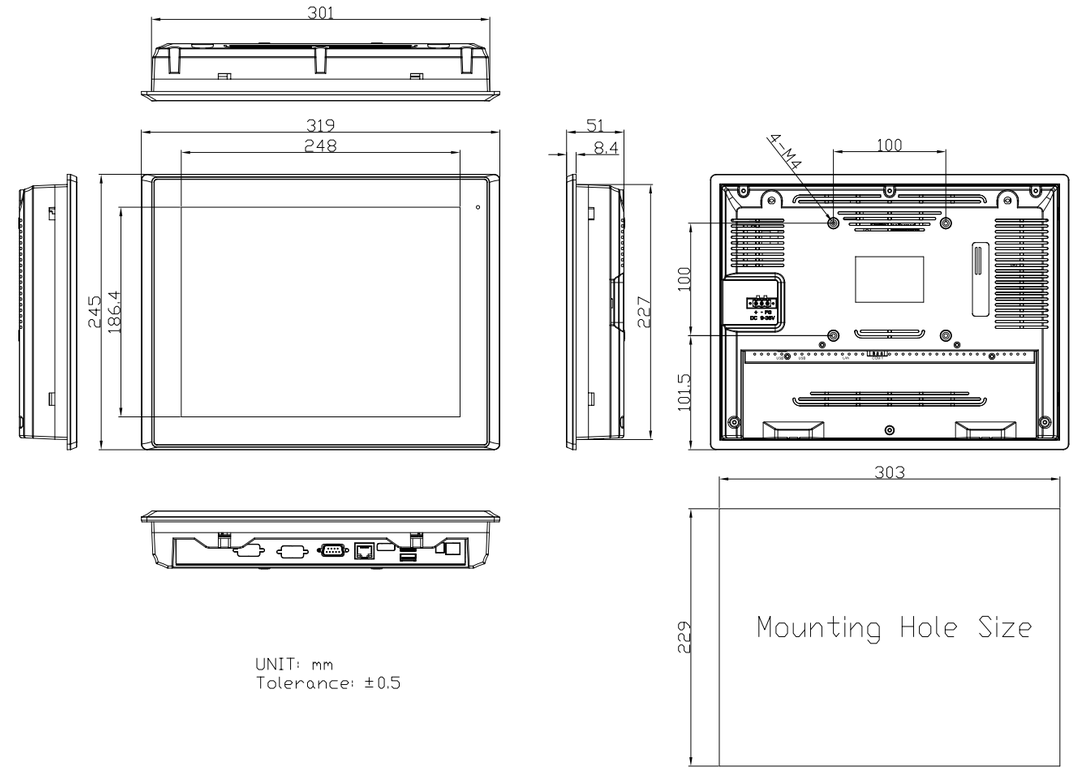
Expansion	
Onboard expansion bus	1 x mini-PCIe slot(full size) 1 x Sim Card slot

Dispalay	
Display Type	12.1” TFT-LCD
Max. Resolution	800 x 600 / 1024 x 768
Max. Color	262K / 262K
Luminance (cd/m^2)	450 / 500
View Angle	178(H) /178(V) / 160(H) /140(V)
Contrast	1500:1
Backlight Lifetime	50,000 hrs / 30,000 hrs

Touch Screen	
Type	Resistive Touch (For R model) Projected Capacitive Touch (For P model)
Interface	SPI(Resistive Touch) / USB(Projected Capacitive Touch)
Light Transmission(%)	Resistive Touch : 80% / Projected Capacitive : 90%

Power	
Power Input	DC 9~36V
Power Consumption	ARMPAC-612P: 10.8W

Dimensions



Mechanical	
Construction	Plastic front bezel and Chassis
Mounting	Panel Mount , VESA mount 100x100
IP Rating	IP65 compliant front bezel
Dimensions	319 x 245 x 51 mm
Net Weight	1.5 kg

Environmental	
Operating Temperature	0~50°C
Storage Temperature	-30~70°C
Storage Humidity	10 to 90% @ 40°C, non- condensing
Certificate	CE/FCC Class A/UL

Operating System Support
Android 6.0.1 / Linux 4.9.88 + Chromium Browser V67

Ordering Information	
ARMPAC-612	12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.
ARMPAC-612P	12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.

V 2.0

All specifications and photos are subject to change without notice.
HMI Cotroller