

Tailored to Your Needs

RISC

Computer on Module

Embedded System

Customized

Embedded Board

Industrial Motherboard

Touch Panel PC

2012
Vol. 1.0

Embedded Platform - Embedded System

Fanless Rugged System

Avalue Rugged Systems were specially designed for long-term operation in extreme harsh environments



Industrial Automation
Factory Management



Transportation
Heavy Vehicle



Outdoor Kiosk

Specially Rugged Designed

to fulfill harsh environment usage, long-term operation such as automation, heavy vehicle...etc.

- **Anti-shock:** according to IEC60068-2-27
(CF : 50G ; HDD : 20G)
- **Anti-Vibration:** according to IEC60068-2-64
(CF : 5G ; HDD : 1G)
- **Extreme temperatures:**
-15°C to 60°C
- **Wide Range DC Power Input:**
9V ~ 32V DC acceptable

Mobile Expansion – Express Card Slot/ 34mm

to add memory, wireless communications, multimedia by inserting ExpressCard modules

- **Wireless LAN**
(802.11 b/g, WiFi)
- **Wireless Broadband Internet**
(3G, CDMA, EVDO, GPRS, UMTS, etc.)

Great Thermal Design

to meet harsh environment demands.

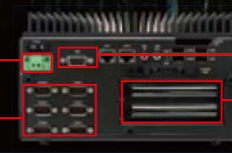
Phoenix-type

Easy to use, resistant to vibration, resistant to loosening

Customized I/O

- LVDS & Backlight Control Connector
- GPIO connector

Customized Functions



VGA/ DVI

Standard VGA, Optional DVI

2 PCI Slot

2 PCI expansion slots for most industrial I/O cards



EPS-QM77

Fanless Intel® Ivy Bridge Rugged Embedded System with Intel® QM77 Chipset

- Intel® Ivy Bridge Processor with Intel® QM77 Chipset
- Two 204-pin SODIMM Sockets Up to 16GB DDR3 1333/ 1600 SDRAM
- Triple Display, CRT, HDMI and Display Port
- Intel® HD Audio, Dual Intel® Gigabit Ethernet
- 1 CFast, 2 SATA III, 8 COM, 8 USB, 1 LPT, 2 PCI, 1 SIM Card, 8-bit/ 16-bit DIO
- Supported H/W RAID Mode 0/ 1
- Service Windows, Easy to Install HDD/ SSD, Memory
- Operating Temperature -20 ~ 60°C, Ambient w/ Air Flow
- Optional: PCI + PCIe16 Riser Card, Single PCIe16 Riser Card and Table Mount Bracket
- Dimensions: 250mm x 220mm x 108mm



EPS-QM67

Fanless Intel® Core™ i7/ i5 Rugged Embedded System with Intel® QM67 Chipset

- Intel® Sandy Bridge Processor (35W ~ 45W CPU)
- Intel® QM67 Chipset
- One 204-pin DDR3 SODIMM Up to 4GB DDR3 1067/ 1333 SDRAM
- Dual Display, 1 DVI-I, 1 HDMI
- 5.1-CH Audio, Dual Gigabit Ethernet
- 1 SATA, 1 mSATA, 2 COM, 6 USB
- -10 ~ +60°C Wide Temperature Operation
- Rugged Design for Vibration/ Shock Protection
- Service Windows, Easy to Install mSATA, SSD and Memory
- Support iAMT 7.0
- Dimensions: 250mm x 220mm x 60mm



EPS-QM57

Fanless Intel® Core™ i7/ Celeron® P4505 Rugged Embedded System with Intel® QM57 Chipset

- Support Intel® Core™ i7-620LE 2.0GHz with 4MB Cache CPU/ Intel® Celeron® P4505 1.86GHz with 2MB Cache CPU
- Intel® QM57 Chipset
- Two 204-pin SODIMMs Up to 8GB DDR3 800/ 1066 SDRAM
- 5.1-CH HD Audio, Dual Gigabit Ethernet
- 1 CFast, 1 SATA, 8 COM, 6 USB, 1 LPT, 2 PCI, 1 x SIM Card, 8-bit/ 16-bit DIO
- Service Windows, Easy to Install HDD/ SSD and Memory
- Fanless Operation; -10 ~ +55°C Wide Temperature
- Optional : PCI + PCIe16 Riser Card, PCIe Riser Card, Table Mount Bracket
- Dimensions: 250mm x 220mm x 108mm



EPS-PNV-2PCI

Fanless Intel® Atom™ D525 Dual Core Rugged Embedded System with Intel® ICH8-M Chipset and 2 PCI

- Onboard Intel® Atom™ D525 Dual Core 1.8GHz CPU
- Intel® ICH8-M Chipset
- One 200-pin DDR2 SODIMM Supports Up to 2GB DDR2 667 SDRAM
- Audio, Dual Gigabit Ethernet
- 1 SATA, 6 COM, 5 USB, 1 VGA, 1 CF
- Service Windows, Easy to Install SSD/ HDD and Memory
- 9 ~ 32V Wide Range DC Power Input
- Operating Temperature : -20 ~ 55°C, Ambient w/ Air Flow
- Dimensions: 220mm x 215mm x 126mm

Ruggedized



ERS-CDV

Fanless Intel® Cedarview Rugged Embedded System with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview D2700 2.13GHz CPU
- Intel® NM10 Express Chipset
- One 204-pin DDR3 SODIMM Socket Up to 4GB DDR3 800/ 1066 SDRAM
- Dual View, VGA and HDMI
- 5.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 CF, 1 SATA, 2 COM, 6 USB, 16-bit GPIO
- Service Windows, Easy to Install HDD/ SSD, Memory
- Operating Temperature -10 ~ 60°C, Ambient w/ Air Flow
- Dimensions: 271mm x 150mm x 55mm



ERS-PNV

Fanless Intel® Atom™ D525 Dual-Core Rugged Embedded System with Intel® ICH8-M Chipset

- Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU (Optional: D510)
- Intel® ICH8-M Chipset
- One 200-pin SODIMM Supports Up to 2GB DDR2 667MHz SDRAM
- 5.1-CH Audio, Dual Gigabit Ethernet
- 1 CF, 1 SATA, 3 COM, 5 USB, 1 Mini PCIe
- Service Windows, Easy to Install HDD/ SSD and Memory
- Fanless Operation
- -10 ~ 50°C Wide Temperature Operation
- Dimensions: 271mm x 150mm x 55mm



ERS-A50M

AMD eOntario T56N Rugged Embedded System with AMD A50M Chipset

- Onboard AMD eOntario T56N 1.6GHz CPU
- AMD A50M Chipset
- One 204-pin DDR3 SODIMM Up to 4GB DDR3 1066 SDRAM
- 1 mSATA, 1 CF, 1 SSD
- Dual Gigabit Ethernet, 7.1-CH Audio
- 1 VGA, 1 HDMI, 2 COM, 6 USB
- Service Windows, Easy to Install HDD/ SSD and Memory
- Operating Temperature -10 ~ 50°C, Ambient w/ Air Flow
- Dimensions: 271mm x 150mm x 55mm

Ultra-Compact



EPC-CDV

Fanless Intel® Cedarview Tiny Box PC with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview D2700 2.13GHz CPU
- Intel® NM10 Express Chipset
- One 204-pin DDR3 SODIMM Socket Up to 4GB DDR3 800/ 1066 SDRAM
- Dual View, VGA and HDMI
- 5.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 CF, 1 SATA, 1 mSATA, 2 COM, 5 USB
- VESA Compliance
- Dimensions: 178mm x 112mm x 50mm



EPC-QB

Fanless Intel® Atom™ E6XX Series Tiny Box PC with Intel® Platform Controller Hub EG20T Chipset

- Onboard Intel® Atom™ E640 1.00GHz CPU
- Intel® Platform Controller Hub EG20T Chipset
- Onboard DDR2 1GB Memory
- Realtek ALC892 Support 7.1-CH Audio
- Dual Intel® 82574L PCI-E Gigabit Ethernet
- 1 CF, 1 Micro SD, 1 SATA, 4 COM, 3 USB
- Fanless Operation, VESA Compliance
- -40 ~ +70°C Wide Temperature Operation
- Dimensions: 178mm x 142mm x 50mm



EPC-A50M-40E

Fanless AMD eOntario T40E Tiny Box PC with A50M Chipset

- Onboard AMD eOntario T40E 1.0GHz CPU
- AMD A50M Chipset
- One 204-pin DDR3 SODIMM Up to 4GB DDR3 1066 SDRAM
- Dual View, VGA and HDMI
- Dual Gigabit Ethernet, 7.1-CH HD Audio
- 1 CF, 1 SATA, 2 COM, 4 USB
- Supported mSATA, 2.5" SATA HDD
- VESA Compliance
- Dimensions: 178mm x 112mm x 50mm



ASM-PNV

Fanless Intel® Atom™ D525 Dual-Core Ultra Slim PC with Intel® ICH8-M Chipset

- Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- Intel® ICH8-M Chipset
- Onboard 1GB RAM and One SODIMM Up to 3GB
- 5.1-CH HD Audio, Dual Gigabit Ethernet
- 1 SATA, 1 CRT, 1 COM, 4 USB, 1 CF
- Supports 2.5" SATA HDD
- Fanless Operation
- Super Slim Size: 182mm x 257mm x 25mm



ASM-A50M

Fanless AMD Fusion Accelerated Dual-Core Processor T40E Ultra Slim PC with AMD A50M Chipset

- AMD Fusion Accelerated Dual-Core Processor T40E 1.0GHz CPU
- AMD A50M Controller Hub Chipset
- Onboard 2GB DDR3 1066 SDRAM and One 204-pin SODIMM Up to 6GB
- Dual Display Output, VGA, HDMI
- 7.1-CH Audio, Dual Gigabit Ethernet
- 1 CF, 1 SATA, 2 COM, 4 USB
- Compliance with ErP/ EuP 2.0
- Super Slim Size: 182mm x 257mm x 25mm



EES-CDV

Fanless Intel® Cedarview Tiny Box PC with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview D2700 2.13GHz CPU
- Intel® NM10 Express Chipset
- One 204-pin DDR3 SODIMM Socket Up to 4GB DDR3 800/ 1066 SDRAM
- Dual View, VGA and HDMI
- 5.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 CF, 1 SATA, 1 mSATA, 2 COM, 5 USB
- Wall Mount Kit
- Dimensions: 220mm x 66.1mm x 147mm

Embedded Platform - Qseven Solution

Qseven Solution

Small Form Factor for Ultra Mobile Applications

- Freely available industry standard
- Defined for low product cost
- High performance interfaces
- Fast serial interfaces
- Compact size
- Perfect for new low power chipsets and processors



Mechanic and Cooling

Compact size

- Quadratic 7 cm (2¾" x 2¾")
- Solid mechanical mounting
- Cost efficient direct edge connector
- Rugged 1.2 mm PCB thickness

Cooling interface

- Top edge defined for heat transfer
- Heat transfer from CPU, Chipset and DRAM enhanced via copper layers
- Heatspreader defined for high power versions (max. 12 W)

MXM Edge Connector

- Foxconn ASOB3 series
- Also offered by Speedtech, Lotes and Aces
- Currently used for notebook MXM graphics cards
- 230 positions, .020" pitch, SMT
- 5.5 and 7.8 mm height versions
- Certified for rugged mobile applications and for high speed serial buses (PEG bus)
- Low cost connector
- 30µ gold plated versions for industrial applications

Mechanic and Cooling

Legacy free interfaces only

- 4 x PCI Express lanes
- 2 x SATA, 8 x USB 2.0
- 2 x ExpressCard
- SDIO, I²C Bus
- High Definition Audio (HDA)
- Gigabit Ethernet

Graphic Interfaces

- LVDS 2 x 24-bit
(with DisplayID flat panel detection)
- SDVO, DisplayPort and HDMI (shared)

Power

- 5V power rail for low cost implementation
- Battery Management
- Additional power management signals



EQM-CDV

Intel® Cedarview Qseven Module with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview-M N2600/ N2800 CPU
- Intel® NM10 Express Chipset
- Onboard 1GB DDR3, Up to 2GB DDR3 1066 SDRAM
- Intel® Gigabit Ethernet
- VGA Interface Onboard; HDMI to Carrier Board
- Single-channel 18-bit LVDS to Carrier Board
- 2 SATA, 8 USB 2.0, LPC, 3 PCIe1
- Fanless Operation
- Size: 70mm x 70mm



EEV-Q701

3.5" Qseven Carrier Board

- 3.5" SBC Form Factor
- Accept Avalue and Others Qseven Compatible CPU Modules
- HDMI, LVDS, SDVO
- Audio Interface
- 1 Mini PCIe with SIM Card Socket
- 2 SATA, 2 COM, 6 USB, 16-bit GPIO
- SD Socket
- Size: 146mm x 101mm

Embedded Platform - COM Express



ESM-QM77

Intel® Core™ i7/ i5/ i3 COM Express Type 6 Module with Intel® QM77 Chipset

- Intel® Core™ i7/ i5/ i3 (Socket-G2) Processors
- Intel® QM77 Chipset
- Two 204-pin DDR3 SODIMM Up to 16GB DDR3 1333/ 1600 SDRAM
- Support CRT, LVDS, Display Port, HDMI, DVI, SDVO
- Intel® High Definition Audio
- Intel® 82579LM Gigabit Ethernet
- 7 PCIe1, 1 PCIe16, 4 SATA, 8 USB 2.0, 4 USB 3.0, 8-bit GPIO
- +9 ~ +19V Wide Range Power Input
- Type 6 Pin-out
- Size: 125mm x 95mm



ESM-945GSE

Intel® Atom™ N270 COM Express Module with Intel® 945GSE + ICH7-M Chipset

- Onboard Intel® Atom™ N270 1.6GHz CPU
- Intel® 945GSE/ ICH7-M Chipset
- Onboard 1GB DDR2 Memory, One 200-pin SODIMM Socket Supports Up to 1GB DDR2 400/ 533MHz SDRAM
- Onboard 1GB DDR2 Memory
- Dual View, 2-CH 18-bit LVDS
- Intel® High Definition Audio
- Intel® 82583V Gigabit Ethernet
- 4 PCI, 3 PCIe1, 2 SATA, 8 USB, 8-bit GPIO
- Size: 125mm x 95mm



ESM-QM57

Intel® Core™ i7 620LE/ 620UE/ Celeron® P4505 COM Express Module with Intel® QM57 Chipset

- Support Intel® Core™ i7 620LE/ 620UE/ Celeron® P4505 CPU
- Intel® QM57 Chipset
- Two 204-pin SODIMM Sockets Up to 8GB DDR3 800/ 1066 SDRAM
- Dual View, Dual-Channel 18/24-bit LVDS
- Intel® High Definition Audio
- Intel® 82574L Gigabit Ethernet
- LPC, 4 PCI, 6 PCIe1, 1 PCIe16
- 4 SATA, 8 USB 2.0
- Supports RAID 0/ 1/ 5/ 10, TPM
- Size: 125mm x 95mm



ESM-945GME

Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M COM Express Module with Intel® 945GME + ICH7-M Chipset

- Supports 65nm Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M CPU
- Intel® 945GME/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533/ 667MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS
- Intel® High Definition Audio
- Marvell 88E8053 Gigabit Ethernet
- 4 PCI, 1 PCIe16, 3 PCIe1, 2 SATA, 8 USB, 8-bit GPIO
- Size: 125mm x 95mm



ESM-GM45

Intel® Core™ 2 Duo/ Celeron® M COM Express Module with Intel® GM45 + ICH9-M Chipset

- Supports Intel® Core™ 2 Duo and Celeron® M CPU
- Intel® GM45/ ICH9-M Chipset
- Two 200-pin SODIMM Sockets Support Up to 4GB DDR2 667/ 800 MHz SDRAM
- Dual View, 2 x 18/ 24-bit LVDS
- Intel® High Definition Audio
- Intel® 82583V Gigabit Ethernet
- 4 PCI, 4 PCIe1, 1 PCIe16, 4 SATA, 8 USB 8-bit GPIO
- Size: 125mm x 95mm



ESM-A50M

AMD eOntario COM Express Module with AMD A50M Chipset

- AMD G-series Processor (T40E, T56N)
- AMD A50M Chipset
- Two 204-pin DDR3 SODIMM Up to 8GB DDR3 1066/ 1333 SDRAM
- Dual View, Dual-Channel 18/ 24-bit LVDS
- Gigabit Ethernet
- 4 SATA, 8 USB, 8-bit GPIO
- Pin-out Type 6
- TPM (Support Version 1.2)
- Size: 125mm x 95mm



EEV-EX13

Micro-ATX COM Express Carrier Board

- Micro-ATX Form Factor
- Accepts Avaleu & Other COM Express CPU Modules
- VGA/ LVDS/ Audio Interfacen
- 1 CF, 1 PCI, 2 PCIe1, 1 PCIe16,
- 4 SATA, 2 COM, 8 USB, 8-bit GPIO, Express Card/ 54mm
- Size: 243.84mm x 243.84mm

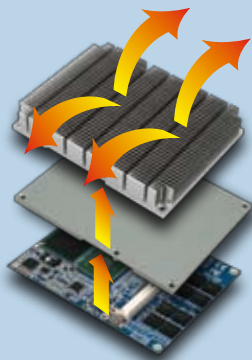


EEV-EX14

Micro-ATX COM Express Type6 Carrier Board

- MicroATX Form Factor
- Accept Avaleu and others COM Express Type6 Compatible CPU Modules
- VGA, LVDS, HDMI/ DisplayPort
- Audio Interface
- 1 PCIe16, 1 PCIe4, 1 PCIe1 Slot
- 4 SATA, 2 COM, 8 USB (Up to 4 USB 3.0), 8-bit GPIO
- Mini-PCIe Card with SIM Card Slot, Express Card/ 54
- Size: 243.84mm x 243.84mm

Thermal Solution



Customized Thermal Solution

The heatsink customization service is available upon request to meet different application requirements.

- Mechanical drawing
- Mock-up sample
- Production

Modularized Thermal Solution

Provides a flexible way to meet any thermal requirements. We offer heatspreaders, heatsinks and coolers as optional items

- Reducing design effort
- High flexibility
- Easy to upgrade

ETX Starter Kit

- Complete Starter Kit for immediate evaluation Purposes
- Choose your ETX module for the Starter Kit.



ESK-ETX

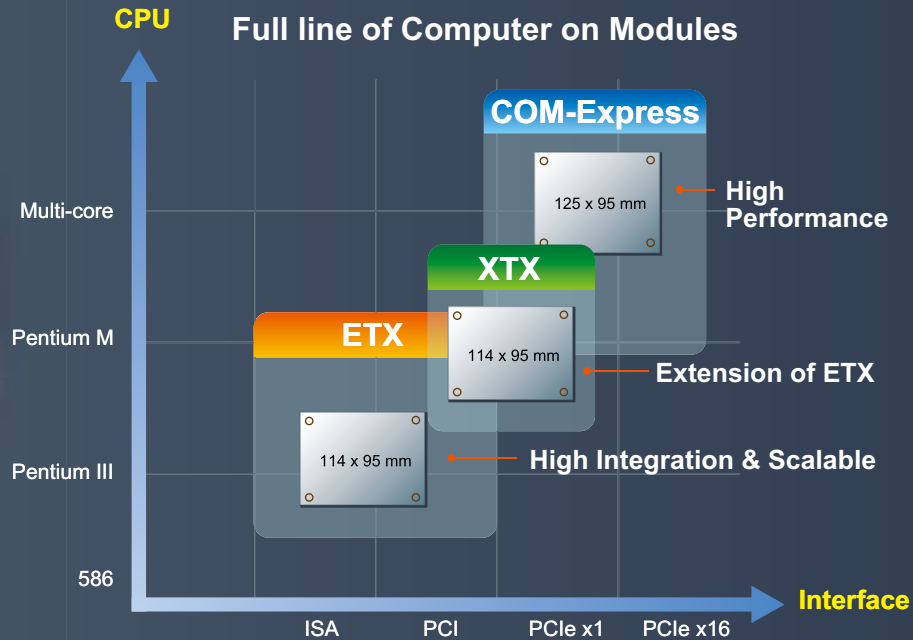
ETX Starter Kit Supports Quick Start-up of ETX

- EEV-EX03 Evaluation Carrier Board
- ESM-945GSX ETX Module (Can be Changed to Other ETX Modules)
- Thermal Solutions (Heatspreader + Heatsink)
- Schematics, Design Guide, and User Manual
- ATX Power Supply
- Cable Set
- WinXP Embedded & Linux Bsp
- Dimension: 400mm x 350mm x 10mm

Embedded Platform - ETX/ XTX



**Save Your Cost and Time
of Assembly & Upgrade**



ETX



ESM-945GSX

Intel® Atom™ N270 ETX Module with Intel® 945GSE + ICH7-M Chipset

- Onboard Intel® Atom™ N270 1.6GHz CPU
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533 MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS, Audio
- Realtek RTL8101L LAN
- 4 PCI, 1 ISA Bus, 2 SATA, 2 COM, 4 USB
- Size: 114mm x 95 mm



ESM-945ETX

Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M ETX Module with Intel® 945GME + ICH7-M Chipset

- Supports Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M CPU
- Intel® 945GME/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533/ 667MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS, Audio
- Realtek RTL8101L LAN
- 4 PCI, 1 ISA Bus, 2 SATA, 4 USB, 2 COM
- Size: 114mm x 95mm



ESM-LX800

AMD Geode LX800 ETX Module with AMD Geode LX800 + CS5536 Chipset

- Onboard AMD Geode LX800 @ 0.9W 500MHz with 128K L2 Cache CPU
- AMD Geode LX800/ CS5536 Chipset
- Onboard 256MB DDR Memory (Optional 512MB)
- 18-bit LVDS, Audio
- Realtek RTL8101L LAN
- 4 PCI, ISA Bus, 2 SATA, 4 USB, 2 COM
- Fanless Operation
- Size: 114mm x 95mm



EEV-EX03

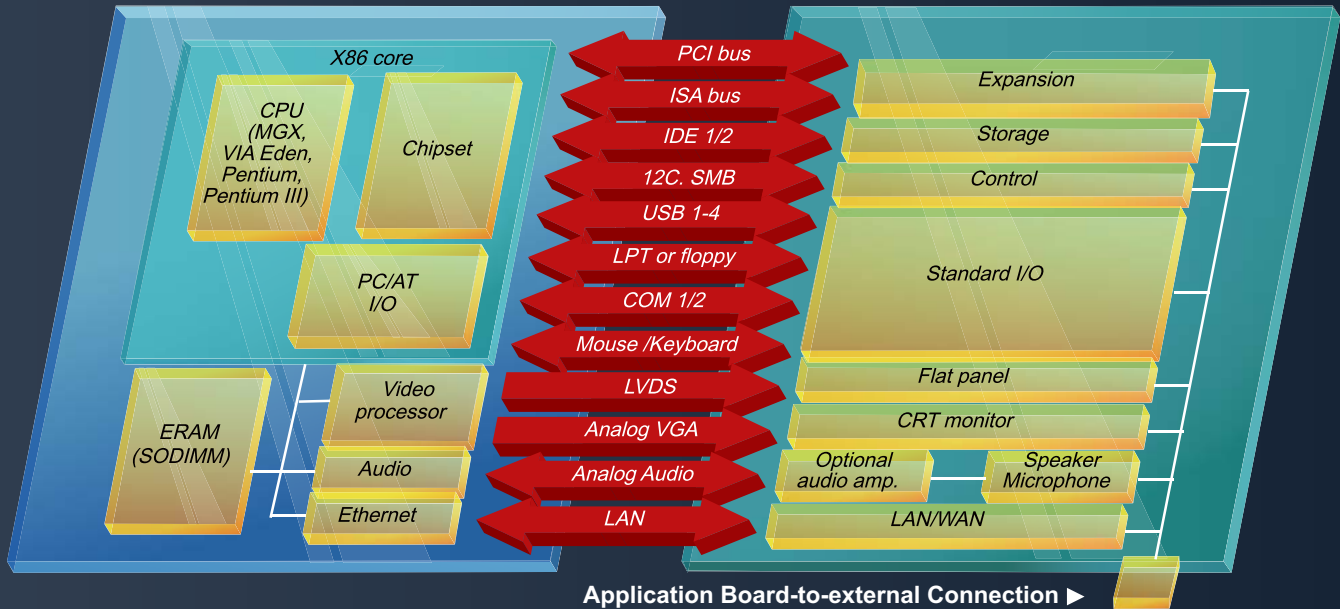
Micro-ATX ETX Carrier Board

- Micro-ATX Form Factor
- Accept Avalue & Other ETX CPU Modules
- VGA/ LVDS/ Audio Interface
- 3 PCI, 2 ISA (Max External 4 Slot)
- 1 CF, 2 COM, 4 USB, 32-bit GPIO
- Size: 240mm x 240mm

30-day Baseboard Prototyping Service

- 1 > **Select ETX/COMexpress Engine**
Test different ETX/COMexpress CPU modules to meet your system requirements
- 2 > **Select Function Block**
Choose interfaces for storage device connection or use them for software compatibility tests
Select expansion slots for extra system functions
- 3 > **Select I/O Connectors**
Identify various I/O interfaces for external peripheral connections
- 4 > **Draft PCB Placement**
- 5 > **Confirm Specification**
- 6 > **NRE Charges**
- 7 > **30 Working Days**
- 8 > **Complete 3 pieces of Engineering Samples**

ETX-to-application Board Connection



XTX



XTX-PNV

Intel® Pineview D525 XTX Module with Intel® ICH8-M Chipset

- Onboard Intel® Pineview-D D525 1.8GHz CPU
- Intel® ICH8-M Chipset
- One 204-pin SODIMM Socket Supports Up to 2GB DDR3 800MHz SDRAM
- Dual View, Dual-channel 18/24-bit LVDS
- Intel® High Definition Audio
- Realtek 8103E LAN
- 4 PCI, 1 PCIe, 1 LPC Bus, I2C Bus
- 3 SATA, 2 COM, 6 USB
- Size: 114mm x 95mm



XTX-US15WP

Intel® Atom™ Z510P/ Z530P XTX Module with Intel® US15WP Chipset

- Intel® Atom™ Z510P/ Z530P CPU
- Intel® US15WP Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533MHz SDRAM
- Dual View, Dual LVDS
- Intel® High Definition Audio, Realtek 8103E LAN
- 4 PCI, 1 PCIe, 1 LPC Bus, Micro SD
- 2 SATA, 6 USB, 4 COM (2 Optional)
- Wide Temperature Version Available
- Size: 114mm x 95mm



EEV-EX20

Micro-ATX XTX Carrier Board

- Micro-ATX Form Factor
- Accept Avalue and Other XTX CPU Modules
- VGA/ LVDS/ Audio Interface
- 2 PCI, 1 PCIe x4, 1 PCIe x1
- 1 Express Card/ 54mm, 1 Mini PCIe Slot,
- 1 CF, 1 LPT, 2 COM, 6 USB, 16-bit GPIO
- Size: 240mm x 240mm

COM Express Starter Kit

- Complete Starter Kit for Immediate Evaluation Purposes
- Choose Your COM Express Module for The Starter Kit.



ESK-COM

COM Express Starter Kit Supports Quick Start-up of COM Express

- EEV-EX13 Evaluation Carrier Board
- ESM-945GSE COM Express Module (Can be Changed to Other COM Express Modules)
- Thermal Solutions (Heatspreader + Heatsink)
- Schematics, Design Guide, and User Manual
- ATX Power Supply
- Cable Set
- WinXP Embedded & Linux Bspis
- Dimensions: 400mm x 350mm x 10mm

XTX Starter Kit

- Complete Starter Kit for immediate evaluation Purposes
- Choose your XTX module for the Starter Kit.



ESK-XTX

XTX Starter Kit Supports Quick Start-up of XTX

- EEV-EX20 Evaluation Carrier Board
- XTX-US15WP XTX Module (Can be Changed to Other XTX Modules)
- Thermal Solutions (Heatspreader + Heatsink)
- Schematics, Design Guide, and User Manual
- ATX Power Supply
- Cable Set
- WinXP Embedded & Linux Bspis
- Dimension: 400mm x 350mm x 10mm

Embedded Platform - 3.5" SBC

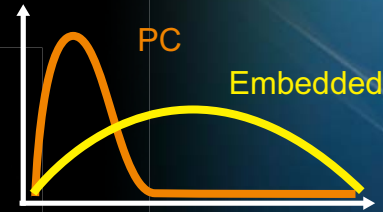
The Preferred Architecture for Embedded Boards

Scalable Architecture

Fanless
Low power
Ruggedized
Supercomputing



Long Life Cycle Support



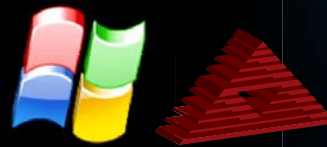
Full Function Range

CPU, Audio, Video, Network, Control,
Power, DIO, FPGA, AD/DA

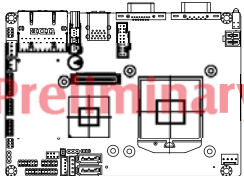


Software Engineering Support for porting, training.

Windows XPe, WinCE, BIOS



3.5" SBC



ECM-QM77

Intel® Ivy Bridge Processors 3.5" Micro Module with Intel® QM77 Chipset

- Intel Chief_River Platform
- Intel® QM77 Chipset
- One 204-pin DDR3 SODIMM Up to 8GB DDR3 1066/ 1333 SDRAM
- Dual-channel 18/24-bit LVDS, HDMI, VGA
- Realtek ALC892 HD Audio Codec
- 2 x Gigabit Ethernet
- Triple Display
- 2 SATA III, 1 Mini PCIe
- 4 USB 3.0, 2 USB 2.0, 2 COM, 8-bit DIO
- iAMT 8.0
- Size: 146mm x 101mm



ECM-CDV

Intel® Cedarview 3.5" Micro Module with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview D2700 2.13GHz CPU (Optional N2800/ N2600 CPU)
- Intel® NM10 Express Chipset
- One 204-pin DDR3 SODIMM Socket, Supports Up to 4GB DDR3 800/ 1066 SDRAM
- HDMI, VGA, Dual-channel 18/ 24-bit LVDS
- 7.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 CF, 1 SATA, 2 COM, 7 USB, 16-bit GPIO
- 1 x Mini PCIe Card (Support mSATA)
- Optional Built-in Touch Screen Interface
- Size: 146mm x 101mm



ECM-QM57

Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 3.5" Micro Module with Intel® QM57 Chipset

- Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 Processor
- Intel® QM57 Chipset
- One 204-pin DDR3 SODIMM Up to 4GB DDR3 800/ 1066 SDRAM
- Dual View, 2-CH LVDS, VGA, HDMI
- 5.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 CFast, 2 SATA, 2 COM, 5 USB, 16-bit GPIO
- Support iAMT 6.0
- Size: 146mm x 101mm



ECM-QB

Intel® Atom™ E640 3.5" Micro Module with Intel® Platform Controller Hub EG20T Chipset

- Onboard Intel® Atom™ E640 1.00GHz CPU
- Intel® Platform Controller Hub EG20T Chipset
- Onboard DDR2 1GB Memory
- Dual View, Single-channel 18/24-bit LVDS, 7.1-CH Audio, Dual Gigabit Ethernet
- 2 SATA, 1 CAN Bus, 5 COM, 4 USB, 16-bit GPIO
- 1 MicroSD, 1 CF Socket
- 1 Mini PCIe Card
- Size: 146mm x 101mm



ECM-PNV

Intel® Atom™ D525 Dual-Core 3.5" Micro Module with Intel® ICH8-M Chipset

- Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- Intel® ICH8-M Chipset
- One 204-pin SODIMM Socket Supports Up to 2GB DDR3 800 SDRAM
- Dual View, Single-channel LVDS, VGA
- 5.1-CH HD Audio
- 2 Intel® 82574L Gigabit Ethernet
- 1 CF, 1 Mini PCIe Card
- 2 SATA, 2 COM, 6 USB, 16-bit GPIO
- Optional AUX-035 for Dual-channel LVDS
- Size: 146mm x 101mm



ECM-A50M

AMD eOntario T40E 3.5" Micro Module with AMD A50M Chipset

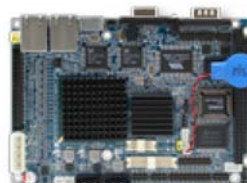
- AMD eOntario T40E 1.00GHz CPU (Optional T56N 1.60GHz CPU)
- AMD A50M Chipset
- One 204-pin DDR3 SODIMM Socket Supports Up to 4GB DDR3 1066 SDRAM
- Dual View, 2-CH LVDS, CRT, HDMI
- 7.1-CH Audio, Dual Gigabit Ethernet
- 1 CF, 2 SATA, 2 COM, 7 USB, 16-bit GPIO
- Size: 146mm x 101mm



ECM-US15WP

Intel® Atom™ Z510P/ Z530P 3.5" Micro Module with Intel® US15WP Chipset

- Intel® Atom™ Z510P/ Z530P CPU
- Intel® US15WP Chipset
- Onboard 1GB Memory
- 1-CH 24-bit LVDS, 5.1-CH Audio
- Intel® 82583V Gigabit Ethernet
- 1 CF, 2 SATA, 6 USB, 2 COM, 16-bit GPIO
- 1 SDIO, 1 SDVO
- Optional Built-in Touch Screen Interface
- Fanless Operation
- Wide Temperature Version Available
- Size: 146mm x 101mm



ECM-LX800W

AMD Geode LX800 3.5" Micro Module with AMD Geode LX800 + CS5536 Chipset

- Onboard AMD Geode LX800 @ 0.9W 500MHz with 128K L2 Cache CPU
- AMD Geode LX800/ CS5536 Chipset
- One 204-pin SODIMM Up to 1GB DDR SDRAM
- Dual View, TFT, LVDS, Audio
- Dual Realtek RTL8101L LAN
- ITE IT8888G PCI to ISA Bridge
- 1 PC/104, 1 CF
- 2 SATA, 4 COM, 4 USB, 16-bit GPIO
- Fanless Operation; Wide Temp.: -40 ~ 85°C
- Size: 146mm x 101mm



ECM-945GSE

Intel® Atom™ N270 3.5" Micro Module with Intel® 945GSE/ ICH7-M Chipset

- Onboard Intel® Atom™ N270 1.6GHz CPU
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533MHz SDRAM
- Dual View, 2-CH LVDS
- 5.1-CH Audio
- Dual Intel® 82583V Gigabit Ethernet
- 1 CF, 1 Mini PCIe Card
- 2 SATA, 2 COM, 6 USB, 16-bit GPIO
- Size: 146mm x 101mm



ECM-LX800D

AMD Geode LX800 3.5" Micro Module with AMD Geode LX800 + CS5536 Chipset

- Onboard AMD Geode LX800 @ 0.9W 500MHz CPU
- AMD Geode LX800/ CS5536 Chipset
- Onboard 256MB Memory (Optional 512MB)
- 18-bit LVDS, 2-CH Audio
- Dual Realtek RTL8101L LAN
- 1 CF, 1 PC/104, 2 COM, 2 USB, 8-bit GPIO
- Optional Built-in Touch Screen Interface
- Fanless Operation
- Wide Voltage: +10V ~ +28V
- Size: 146mm x 101mm



ECM-945GME

Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M 3.5" Micro Module with Intel® 945GME + ICH7-M Chipset

- Supports 65nm Intel® µFC-PGA 478/ µFC-BGA 479 Core™ 2 Duo/ Core™ Duo/ Celeron® M CPU
- Intel® 945GME/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 400/ 533/ 667MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS
- 5.1-CH/ 7.1-CH Audio, S/PDIF
- Dual Realtek RTL8111C Gigabit Ethernet
- 1 Mini PCI, 1 CF, 2 SATA, 2 COM, 4 USB, 8-bit GPIO
- Jumperless Serial Port Configuration
- ACPI S3/ S4 Supported
- Size: 146mm x 101mm



ECM-VX900

VIA Nano™ X2 U4300E 3.5" Micro Module with VIA VX900 Chipset

- VIA Nano™ X2 U4300E 1.2GHz Processor
- VIA VX900 Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB DDR3 1333MHz SDRAM
- Dual View, Dual-channel LVDS, HDMI
- 7.1-CH Audio
- Dual Realtek RTL8111E Gigabit Ethernet
- Mini-Pcie Card Slot
- 1 CF, 2 SATA, 2 COM, 7 USB, 16-bit GPIO
- Size: 146mm x 101mm

Embedded Platform - EPIC/ 5.25" SBC

Advantages of Boards and Modules



Facilitation

- Off-the-shelf computer board
- Support the future bus architecture extension interfaces



Reliability

- Expertise of ruggedized design
- Serving medical, transportation, and harsh environment



Compliance

- Compliant to of industry standard
- Compliant to safety regulations
- In-house testing and certification facilities

EPIC



EPI-QM77

Intel® Ivy Bridge EPIC Module with Intel® QM77 Chipset

- Intel® Ivy Bridge Processor
- Intel® Panther Point-Mbl (QM77) Chipset
- One 204-pin DDR3 SODIMM Up to 8GB DDR3 1066/ 1333 SDRAM
- Triple Display, 2-CH LVDS, 1 DVI-I, 1 HDMI
- Dual Intel® Gigabit Ethernet
- 2 SATA II, 2 COM, 16-bit GPIO, 2 USB 2.0, 4 USB 3.0
- Support iAMT 8.0, mSATA
- Backward Compatibility (EPI-QM77 can adopt Intel Sandy Bridge CPU)
- Size: 115mm x 165mm



EPI-QM57

Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 EPIC Module with Intel® QM57 Chipset

- Intel® Core™ i7-620LE/ 620UE/ Celeron® M P4505 Processor
- Intel® QM57 Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB DDR3 800/ 1066MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS, DVI-I
- Dual Intel® Gigabit Ethernet
- 1 CF, 4 SATA, 2 COM, 8 USB, 16-bit GPIO
- Options: Express Card/ 34mm, Built-in Touch Screen Interface
- Support iAMT 6.0, RAID 0/ 1/ 5/ 10
- Size: 115mm x 165mm



EPI-QM67

Intel® Sandy Bridge EPIC Module with Intel® QM67 Chipset

- Intel® FCPGA988 Socket Supports Sandy Bridge Processor
- Intel® QM67 Chipset
- One 204-pin DDR3 SODIMM Up to 8GB DDR3 1066/ 1333 SDRAM
- Dual View, Dual-channel LVDS, DVI, HDMI
- Dual Intel® Gigabit Ethernet
- 2 SATA III, 2 COM, 10 USB, 16-bit GPIO
- Support iAMT 7.0
- Support mSATA
- Size: 115mm x 165mm



5.25" SBC



EBM-CDV

Intel® Cedarview Atom™ 5.25" Mini Module with Intel® NM10 Express Chipset

- Onboard Intel® Cedarview-M/ Cedarview-D DC (Co-layout) N2800/ D2700
- Intel® NM10 Express Chipset
- One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM
- Dual View, 2-CH 18/ 24-bit LVDS, HDMI
- Built-in Touch Screen Interface
- 5.1-CH Audio, Dual Intel® 82574L Gigabit Ethernet
- 1 x Mini PCIe Port (Support mSATA)
- 1 SATA, 6 COM, 8 USB 2.0, 16-bit GPIO
- Size: 203mm x 146mm



EBM-A50M

AMD eOntario 5.25" Mini Module with AMD A50M Chipset

- AMD T40E Dual Core 1.0GHz CPU without Fan or Optional T56N Dual Core 1.65GHz CPU with Fan
- AMD A50M Chipset
- Onboard 2G DDR3 1333 SDRAM, One 204-pin DDR3 SODIMM Up to 4GB DDR3 1333 SDRAM
- Dual View, 2-CH LVDS, HDMI
- 7.1-CH Audio, Dual Gigabit Ethernet, 2W Amplifier
- Two Mini PCIe Slots, Supports Optional mSATA
- 1 CF, 2 SATA, 6 COM, 8 USB, 16-bit GPIO
- +12V ~ 28V Wide Voltage Power Input
- Compliance with ErP/ EuP 2.0
- Size: 203mm x 146mm



EBM-PNV

Intel® Atom™ D525 Dual-Core 5.25" Mini Module with Intel® ICH8-M Chipset

- Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- +12V ~ 28V Wide Voltage Input, ErP Power
- Onboard 1GB DDR3 SDRAM & Touch Controller
- Dual View, 2 x 18/24-bit LVDS
- 5.1-CH Audio, 2W Amplifier
- 2 Intel® 82574L Gigabit Ethernet (Optional 1 PS/2)
- 1 CF, 2 Mini PCIe Slots, Support Mini Card DOM
- 1 SATA, 1 LPT, 6 COM, 7 USB, 16-bit GPIO
- Over Current & Surge Protection
- Power-on Timer
- Size: 203mm x 146mm



Comparison Chart

Item	Navy Pier Intel® Atom™ N270 + 945GSE + ICH7M	Luna Pier Pineview-M N450 + ICH8M	Luna Pier Refresh Pineview-D D410/ D510 + ICH8M
Kit TDP	8~10W	~8W	~13W/ ~17W (DC)
Kit Size	2220	1450	1450
L2 Cache	512Kb	512Kb	512/ 1024Kb
CPU/ FSB Freq	1.6GHz/ 533MHz	1.66GHz/ 667MHz	TBD
Graphic Core Freq	166MHz	200MHz	400MHz
Memory	DDR2 533	DDR2 667	DDR2 667
Max Memory	2GB	2GB	2GB
Display	VGA, LVDS, SDVO, TV	VGA, LVDS	VGA, LVDS
PCIe	4 x 1, 1 x 4	6 x 1 (1 x 4 + 2 x 1)	6 x 1 (1 x 4 + 2 x 1)
SATA	2 Ports	3 Ports	3 Ports
PATA	Yes	Yes	Yes
USB	8	10	10
PCI	6	4	4

Embedded Platform - Peripherals



EPM-1712

Vehicle 100Watt Smart DC/DC Converter

- Wide Range DC Power Input: 6 ~ 30V DC
- Output Voltage: 12V DC
- Intelligent System on/off Control Via Jumper Setting
- 6 Selectable Power on/off Timing Modes
- Load Down Protection
- Over Voltage Protection
- Short Circuit Protection
- Over Current Protection
- Battery Voltage Monitor
- Size: 50mm x 135mm



EPM-1560T

Panel-Link Transmitter Module

- Scalable Bandwidth: 25 - 165megapixels/sec (VGA to UXGA)
- Flexible Graphics Controller Interface: 24-bit (1pixel/clock) Mode Inputs
- Flexible Input Clocking:
 - Single Clock Single Edge
 - Single Clock Dual Edge
- Low EMI Low Voltage Interface: +3.3V with Option for +1.0 ~ +1.8V
- Receiver Detection: Supports Hot Plug Detection
- Distance Support Cable: Over 5m with Twisted Pair and Fiber-optics Ready
- Standards Compliant with DVI 1.0 (DVI is Backwards Compliant with VESA DTM and DFP)
- Size: 66mm x 50mm



EPM-1520

18/24-bit LVDS Transmitter Module

- Supports 20 ~ 85MHz Shift Clock
- Up to 2.38Gbps Throughput
- Up to 297.5Mbytes/sec Bandwidth
- 345mV (typ) Swing LVDS Devices for Low EMI
- Compatible with TIA/ EIA-644 LVDS Standard
- Flat Panel/ CRT Interface:
 - NS DS90C385 or Equivalent Transmitter Chipset (EPM-1520-24)
 - NS DS90C365 or Equivalent Transmitter Chipset (EPM-1520-18)
 - Supports VGA, SVGA, XGA and single/dual pixel
- SXVGA Display Type
- 40-pin DFB-40DP-1.25V (Input)
- Operating Temperature: 32 ~ 140°F (0 ~ 60°C)
- Size: 65mm x 50mm



EPM-1534

1 LVDS to 4 LVDS Module

- Supports Dual-channel 18/24-bit LVDS Signal
- +12V Power Input from Power Jack or ATX 4-pin Power Connector
- PC/104 Form Factor
- 1 x LVDS in, 4 x LVDS out (Dual-channel Support)
- Operating Temperature: 32 to 140°F (0 to 60°C)
- Size (L x W x H): 96mm x 90mm x 10mm
Note: Max Current Output: 5V @ 8A, 3.3V @ 7A



EPM-1530

18/24-bit LVDS Receiver Module

- Supports 20 ~ 85MHz Shift Clock
- Up to 2.38Gbps Throughput
- Up to 297.5Mbytes/sec Bandwidth
- 345mV (typ) Swing LVDS Devices for Low EMI
- Compatible with TIA/ EIA-644 LVDS Standard
- Flat Panel/ CRT Interface:
 - NS DS90C384 or Equivalent Receiver Chipset
 - Supports VGA, SVGA, XGA and Single/ Dual Pixel SXVGA Display Type
- 20-pin HIROSE DF14A-20P-1.25H Connector (Input)
- Operating temperature: 32 ~ 140°F (0 ~ 60°C)
- Size: 65mm x 50mm



EPM-1524

USB to Serial Port Module

- USB Input Via Connector or Pin Header
- Supports USB Specification V2.0 and USB CDC V1.1
- +5V or 12V Power Output Select for Each RS-232 Serial Port
- Supports Bus Power and External Power
- Directly Supports Additional Power Input from Avale Boards
- Operating Temperature: 32 ~ 140°F (0 ~ 60°C)
- Size: 101mm x 40mm



EPM-1522

18/24-bit TTL/ LVDS to DVI Transmitter

- Supports 18 and 24-bit LVDS to DVI
- Supports 18-bit/ 24-bit TTL LCD to DVI (Option)
- Standard DVI Connector
- Single +5 V power supply
- LCD Connector: Hirose DF13-40DP-1.25V x 2, One for LVDS Input, One for TTL Input
- Power Input Connector: Standard Mini Power Connector, Pitch 2.54mm (+5V, GND, GND, +12V), Can be Changed to Vertical/ Horizontal Type of Connector
- DVI Output: Standard DVI Connector
- Operating Temperature: 32 ~ 140°F (0 ~ 60°C)
- Size: 66mm x 66mm (4 Stand-off Need Compatible with uPGA479 Cooler Stand-off)



EPM-1525

VGA/ DVI to TTL/ LVDS Scaler Module

- Supports Single Channel 18/ 24-bit TTL and Dual-channel 18/ 24-bit LVDS
- Supports VGA/ TMDS/ YPcPr Input to LVDS SXGA/ UXGA/ WSXGA+/ WXGA+ Resolution
- Fully Programmable Zoom Ratios
- Supports Non-linear Scaling from 4:3 to 16:9 or 16:9 to 4:3
- Zoom Scaling Up and Down
- Supports Power Saving Mode When No Signal Input
- Programmable 5 keys OSD
- 2W Amplify Audio Output
- +12V Only Operation

Industrial System

Extending expertise on industrial motherboards and industrial PC manufacturing, Avalue combines scalable motherboards and various chassis to provide customers numbers of MB-based systems. Two key factors to develop Avalue's MB system is expansion and thermal design; for higher rugged/harsh applications, better expansion and thermal design are required.

Rack Mount System



BAX-R4U7 4U Rack Mount System

- Intel® Socket H2 LGA1155 Supports 2nd Gen Intel® Core™ i7, i5, i3 Processors
- Intel® Q67 Chipset
- 4 x Dual Channel DDR3 800, 1066, 1333, and 1600 Non-ECC UDIMM Support Up to 16GB
- Great Scalability with One 3.5" and Two 5.25" Front-accessible Drive Bays
- 2 Front and 4 Rear USB 2.0 Ports
- Supports 1 x PCIe16, 1 x PCIe4, 1 x PCIe1, 1 x PCI Expansion Slot
- Support RAID 0, 1, 5, 10
- Dimensions: 450mm x 427mm x 177mm



BAX-R4U6 4U Rack Mount System

- Intel® C2Q, C2D, Pentium®/ Celeron® Dual-Core in LGA775 CPU
- Intel® G41 Express Chipset
- 2 x 1066/ 800MHz DDR3 Non-ECC Un-Buffered Memory Support Up to 4GB
- VGA and HDMI Dual Display
- Great Scalability with One 3.5" and Two 5.25" Front-accessible Drive Bays
- 1 Front and 4 Rear USB 2.0 Ports
- Supports 1 x PCIe16, 1 x PCIe1, 2 x 32-bit PCI Expansion Slot
- Dimensions: 450mm x 427mm x 177mm



BAX-R2U7 2U Rack Mount System

- Intel® Socket H2 LGA1155 Supports 2nd Gen Intel® Core™ i7, i5, i3 Processors
- Intel® Q67 Chipset
- 4 x Dual Channel DDR3 800, 1066, 1333, and 1600 Non-ECC UDIMM Support Up to 16GB
- Great Scalability with One 3.5" and Two 5.25" Front-accessible Drive Bays
- 1 Front and 4 Rear USB 2.0 Ports
- Supports 1 x PCIe16, 1 x PCIe4, 1 x PCIe1, 1 x PCI Expansion Slot (Low Profile)
- Support RAID 0, 1, 5, 10
- Dimensions: 530mm x 427mm x 88mm



BAX-R2U6 2U Rack Mount System

- Intel® C2Q, C2D, Pentium®/ Celeron® Dual-Core in LGA775 CPU
- Intel® G41 Express Chipset
- 2 x 1066/ 800MHz DDR3 Non-ECC Un-Buffered Memory Support Up to 4GB
- VGA and HDMI Dual Display
- Great Scalability with One 3.5" and Two 5.25" Front-accessible Drive Bays
- 1 Front and 4 Rear USB 2.0 Ports
- Supports 1 x PCIe16, 1 x PCIe1, 2 x 32-bit PCI Expansion Slot
- Dimensions: 530mm x 427mm x 88mm



BAX-R1U6 1U Rack Mount System

- Intel® C2Q, C2D, Pentium®/ Celeron® Dual-Core in LGA775 CPU
- Intel® G41 Express Chipset
- 2 x 1066/ 800MHz DDR3 Non-ECC Un-Buffered Memory Support Up to 4GB
- VGA and HDMI Dual Display
- 2 x 3.5" SSD/ HDD Drive Bay
- 1 x 10cm System Blower Fan
- 260W Power Supply
- Dimensions: 356mm x 426mm x 43mm

Mini ITX System



BMX-T50A Mini ITX Barebone

- AMD G-Series T56N 1.6GHz/ T40N 1.0GHz CPU
- AMD A55E Controller Hub Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB DDR3 1066 SDRAM
- AMD Radeon HD 6310
- Dual View, HDMI, VGA, 18-bit Single-channel LVDS
- 7.1-CH HD Audio, Dual Gigabit Ethernet
- 4 RS-232 COM, 6 USB 2.0
- One Expansion Slot for PCIe4
- RAID 0, 1, 5, 10
- Dimensions: 231.5mm x 95mm x 340mm



BMX-P50 Mini ITX Barebone

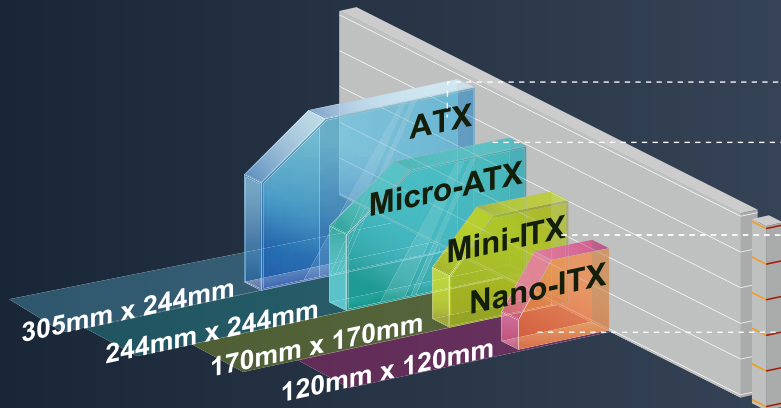
- Intel® Socket H2 LGA1155 Supports 2nd Gen Intel® Core™ i7, i5, i3 Processors
- Intel® Q67 Chipset
- Scalable with More Mini ITX Board Options
- Default Onboard DVI, VGA, LAN
- Two Expandable PCI Slots
- Default 5.1+2-CH Audio Streams
- 1 x 2.5" HDD
- 90W Adapter & Optional Cable Fastener
- 2 COM, 6 USB
- Optional Wall Mount Kit
- Dimensions: 273mm x 300mm x 65mm



BMX-P10 Mini ITX Barebone

- AMD G-Series T56N 1.6GHz CPU
- AMD A55E Controller Hub Chipset
- Scalable with More Mini ITX Board Options
- Default Onboard DVI, VGA, LAN
- Two Expandable PCI Slots
- Default 5.1+2-CH Audio Streams
- 1 x 2.5" HDD
- 90W Adapter & Optional Cable Fastener
- 2 COM, 6 USB
- Optional Wall Mount Kit
- Dimensions: 215mm x 230mm x 65mm

Industrial MB - ATX/ Micro ATX/ Nano ITX



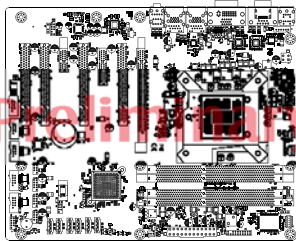
Powerful Platform
Reliable/Wide-Expansion

High Performance
Fair Capabilities of Expansion

Scalable Performance
Suitable for Various Applications

Small Footprint
Low Power Consumption

ATX



EAX-Q77

Intel® Ivy Bridge ATX Motherboard with Intel® Q77 Chipset

- Intel® Ivy Bridge Desktop LGA1155
- Intel® Q77 Chipset
- Two 240-pin DDR3 DIMMs Up to 8GB DDR3 1066/ 1333 SDRAM
- DVI, HDMI, VGA, Triple Display
- Realtek ALC892 HD Audio Codec
- Dual Gigabit Ethernet
- 4 PCI, 1 PCIe16, 1 PCIe4, 1 PCIe1
- 6 SATA II, 8 USB 2.0, 4 COM, 8-bit DIO, 1 x 6-pin Header for PS/2
- TPM 1.2
- Size: 304.8mm x 243.84mm



EAX-Q35

Intel® Core™ 2 Quad/ Core™ 2 Duo ATX Motherboard with Intel® Q35 + ICH9DO Chipset

- Supports 45nm Intel® Core™ 2 Quad/ Core™ 2 Duo Processors CPU
- Intel® Q35/ ICH9DO Chipset
- Four DIMMs Up to 8GB 2-CH DDR2 800/ 667MHz SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 3100
- Realtek ALC888 Supports 5.1+2-CH HD Audio Streams, 6W AMP
- Dual Realtek RTL8111C Gigabit Ethernet
- 1 PCIe16, 1 PCIe1, 5 PCI
- 4 COM (5/ 12V), 6 SATA, 12 USB, 16-bit DIO
- TPM 9635TT 1.2
- 6 x SATA II with Intel® Matrix Storage Manager Support
- Size: 304.8mm x 243.84mm



EAX-Q67

Intel® Sandy Bridge ATX Motherboard with Intel® Q67 Chipset

- Intel® Sandy Bridge Desktop LGA1155 (Socket H2) CPU
- Intel® Q67 Chipset
- Four 240-pin DIMMs Up to 16GB Dual Channel DDR3 1066/1333/1600 SDRAM, Non-ECC
- Integrated GFX
- 5.1-CH HD Audio, Dual Gigabit Ethernet
- 1 PCIe16, 1 PCIe4, 1 PCIe1, 4 PCI
- 2 SATA 3.0 and 4 SATA II
- 6 COM, 12 USB, 8-bit GPIO
- TPM 1.2 (Optional)
- Size: 304.8mm x 243.84mm



EAX-945G

Intel® Core™ 2 Duo/ Core™ Duo/ Pentium® 4/ Celeron® D ATX Motherboard with Intel® 945G Chipset

- Supports Intel® Core™ 2 Duo/ Core™ Duo/ Pentium® 4/ Pentium® D CPU
- Intel® 945G/ ICH7 Chipset
- Four DIMMs Up to 4GB 2-CH DDR2 667/ 533MHz SDRAM
- Intel® Graphics Media Accelerator 950
- Realtek ALC888 8-CH High Definition Audio
- Dual Intel® 82573L Gigabit Ethernet
- 1 PCIe16, 1 PCIe1, 5 PCI
- 4 COM, 8 USB, 4 SATA II
- 4 x SATA with Intel® Matrix Storage Manager Support
- PCIe16 Supports ADD2 VGA/ DVI/ HDMI Card
- Size: 304.8mm x 243.84mm



EAX-Q45

Intel® Core™ 2 Quad/ Core™ 2 Duo ATX Motherboard with Intel® Q45 + ICH10DO Chipset

- Supports Intel® Core™ 2 Quad/ Core™ 2 Duo Processors CPU
- Intel® Q45/ ICH10DO Chipset
- Four DIMMs Up to 8GB DDR2 800/ 667MHz SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 4500
- 5.1+2-CH HD Audio Streams
- Dual Realtek RTL8111SC Gigabit Ethernet
- 1 PCIe16, 2 PCIe1, 4 PCI
- 2 x COM (5/ 12V), 5 x SATA II, 1 x eSATA, 12 x USB, 16-bit DIO
- Integrated TPM, Power Fail Auto-on
- Size: 304.8mm x 243.84mm



EAX-785E

AMD Turion/ Athlon II Neo Processor ATX Motherboard with AMD RS785E + SB850 Chipset

- AMD Turion/ Athlon II Neo Processor
- AMD RS785E/ SB850 Chipset
- Four 240-pin DDR3 DIMMs Up to 8GB DDR3 800/ 1066/ 1333 SDRAM with ECC Support
- RS785E Integrated: ATI Radeon HD4200 Series
- Dual Display, 1 VGA, 1 LVDS
- 7.1+2-CH HD Audio, 6W AMP
- 2 x RTL8111DL Gigabit Ethernet
- 2 PCIe16, 4 PCIe1, 1 PCI
- 4 COM, 8 USB, 5 SATA, 1 eSATA, 8-bit DIO
- Size: 304.8mm x 243.84mm

Micro ATX



ERX-Q67

Intel® Sandy Bridge Micro ATX Motherboard with Intel® Q67 Chipset

- Sandy Bridge Desktop Socket LGA1155, Sandy Bridge DT Monolithic 32nm 4 Core™ & 2 Core™ w/ IMC & Gfx CPU
- Cougar Point (Intel® Q67 Chipset)
- 4 x Dual Channel DDR3 800, 1066, 1333, and 1600 Non-ECC UDIMM (240-pin)
- 1 VGA, 1 Display Port and 1 HDMI
- Realtek ALC892 Supports 5.1-CH HD Audio
- Dual Gigabit Ethernet
- 1 PCIe16, 1 PCIe4, 1 PCIe1, 1 PCI
- 4 SATA 2.0, 2 SATA 3.0, 6 COM, 12 USB, 8-bit DIO
- RAID 0, 1, 5, 10
- TPM 1.2 (Optional)
- Size: 243.84mm x 243.84mm



ERX-H61

Intel® Core™/ Pentium®/ Celeron® Micro ATX Motherboard with Intel® H61 Express Chipset

- Intel® LGA1155 Socket Supports Core™ i7/ i5/ i3, Pentium® and Celeron® Processors
- Intel® H61 Express Chipset
- Two 240-pin DIMM Sockets Up to 8GB Dual Channel DDR3 1066/ 1333MHz SDRAM
- VGA, DVI-D, HDMI
- Realtek ALC662/ 661 5.1-CH HD Audio Codec
- Realtek RTL8111E PCI-Express Gigabit Ethernet
- 1 x PCIe16, 2 x PCIe1, 1 x PCI
- 4 SATA II, 8 USB 2.0
- Size: 244mm x 185mm



ERX-G41

Intel® Core™ 2 Quad/ Core™ 2 Duo Micro ATX Motherboard with Intel® G41 + ICH7-R Chipset

- Intel® LGA775 Socket Supports Intel® Core™ 2 Quad/ Core™ 2 Duo CPU
- Intel® G41/ ICH7-R Chipset
- Two 240-pin DIMM Sockets Support Up to 8GB Dual-channel DDR2 667/ 800MHz SDRAM
- Intel® Graphics Media Accelerator X4500
- Dual View, LVDS, VGA
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Dual Realtek RTL8111D Gigabit Ethernet
- 1 PCIe16, 1 PCIe4, 2 PCI
- 4 SATA II, 1 LPT, 10 COM, 8 USB, 16-bit GPIO
- RAID 0, 1, 5, 10
- TPM 1.2 (Optional)
- Size: 243.84mm x 243.84mm



ERX-945G

Intel® Core™ 2 Duo®/ Core™ Duo®/ Pentium® 4/ Celeron® D Micro ATX Motherboard with Intel® 82945G + ICH7 Chipset

- Supports 65nm Intel® Core™ 2 Duo/ Core™ Duo/ Pentium® 4/ Celeron® D CPU
- Intel® 945G/ ICH7 Chipset
- Four 240-pin DIMMs Up to 4GB 2-CH DDR 400/ 533/ 667MHz SDRAM
- Intel® Graphics Media Accelerator 950
- Realtek ALC882 Supports 7.1-CH High Definition Audio
- Intel® 82573L Gigabit Ethernet
- 1 PCIe16, 1 PCIe1, 2 PCI
- 2 COM, 8 USB, 4 SATA
- PCIe16 Supports ADD2 VGA/ DVI/ HDMI Card
- Size: 243.84mm x 243.84mm

Nano ITX



ENX-PNV

Intel® Atom™ PNV-M/ PNV-D Nano ITX Motherboard with Intel® ICH8-M Chipset

- Intel® Pineview-M/ Pineview-D Series CPU
- Intel® ICH8-M Chipset
- One 200-pin SODIMM Up to 2GB DDR2 667MHz SDRAM (PNV-M); 4GB (PNV-D), Non-ECC
- Dual View, LVDS, VGA
- Realtek ALC888 Supports 7.1-CH HD Audio
- Realtek RTL8111C Gigabit Ethernet
- 1 Mini PCI, 1 CF, 2 COM, 4 USB, 2 SATA
- TPM 1.2
- Size: 120mm x 120mm



ENX-US15WP

Intel® Atom™ Z510P/ Z530P Nano ITX Motherboard with Intel® US15WP Chipset

- Onboard Intel® Atom™ Z510P/ Z530P CPU
- Intel® US15WP Chipset
- 2D/3D Graphics Acceleration Supports Direct X9, EMV9, H.264.A and MPEG2 Video Decoding
- One 200-pin SODIMM Up to 2GB DDR2 400/ 533MHz SDRAM
- Dual View, VGA, LVDS
- Realtek ALC888 Supports 7.1-CH HD Audio
- Realtek RTL8111C Gigabit Ethernet
- 1 Mini PCIe, 1 CF
- 1 COM, 4 USB, 8-bit GPIO
- Optional TPM
- Size: 120mm x 120mm



ENX-LX800

AMD Geode LX800 Nano ITX Motherboard with AMD Geode LX800 + CS5536 Chipset

- Onboard AMD Geode LX800 500MHz @ 0.9W CPU
- AMD Geode LX800/ CS5536 Chipset
- One SODIMM Up to 1GB DDR 400MHz SDRAM
- 18/24-bit TTL, LVDS
- Realtek ALC655 Supports 2-CH Audio
- Realtek RTL8139DL 10/100 Mbps LAN
- 1 Mini PCI, 1 CF
- 2 COM (1 Powered COM), 4 USB, 8-bit GPIO
- Size: 120mm x 120mm



Industrial MB - Mini ITX



Scalable Performance/ CPU Range

Low Power; Eco-friendly

Possible Fanless Operation

MINI-ITX



EMX-QM67

Intel® Core™ i7/ i5/ i3 Mini-ITX Motherboard with Intel® QM67 Chipset

- Intel® rPGA988 Socket (Socket G2) Supports Intel® Mobile Core™ i7/ i5/ i3/ Celeron® CPU
- Intel® QM67 Chipset
- Two 204-pin Dual-channel DDR3 1333/ 1066 Non-ECC SODIMM, Up to 16GB
- Intel® GMA HD 2000/ 3000 Supports DirectX 10.1
- HDMI, DisplayPort, VGA, 24-bit 2-CH LVDS
- Realtek ALC892 Supports 5.1-CH HD Audio
- Dual Gigabit Ethernet
- 1 PCIe16 Gen. 2, 1 Mini PCIe, 1 CFAST
- 2 SATA 3.0 (6Gb/s) and 3 SATA II Supports RAID 0, 1, 5, 10
- 4 COM, 12 USB 2.0, 8-bit GPIO
- Size: 170mm x 170mm



EMX-CDV

Intel® Atom™ Cedarview-D Mini ITX Motherboard with Intel® NM10 Express Chipset

- Onboard Intel® Atom™ Cedarview-D (Co-lay Cedarview-M)
- Intel® NM10 Express Chipset
- One 204-pin DDR3 SODIMM Socket, Supports Up to 4GB DDR3 800/ 1066 SDRAM
- HDMI, VGA, 1 x 24-bit LVDS
- 7.1-CH Audio, Dual Intel® Gigabit Ethernet
- 1 Mini PCIe, 1 PCIe1, CFAST (Optional)
- 2 SATA, 6 COM (5V/ 12V), 7 USB, 8-bit GPIO
- TPM 1.2 (Optional)
- Size: 170mm x 170mm



EMX-QM57

Intel® Capella Mini ITX Motherboard with Intel® QM57 Chipset

- Intel® Arrandale/ Ibex-M Support Intel® 32nm Arrandale BGA1288 SV/ LV/ ULV Processors, TDP Up to 35W by iMVP-6.5
- Intel® QM57 Chipset
- Two SODIMMs Up to 8GB DDR3 Dual-channel 1066/ 800MHz SDRAM
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Intel® 82577-LM PCI-E Gigabit Ethernet Support iAMT 6.0; Realtek RTL8111C PCI-E Gigabit Ethernet
- 1 PCIe16, 1 Mini PCI Express
- 4 SATA/ SATAII, 1 Display Port, 1 HDMI, 1 VGA, 1 LVDS Conn., 1 LVDS Backlight Conn., 2 COM, 8 USB, 8-bit GPIO
- Intel® iKVM
- Size: 170mm x 170mm



EMX-CDT

Intel® Atom™ Cedar Trail Mini ITX Motherboard with Intel® D2700 Processor + NM10 Chipset

- Intel® Atom™ Processor D2700 Cedar Trail
- Intel® NM10 Chipset
- 1 x DDR3 1066/ 1333MHz SO-DIMM Support 4GB MAX
- VGA, HDMI, Single-channel 18/ 24-bit LVDS
- 2 x Realtek RTL8111E PCIe Gigabit Ethernet
- 1 x Mini PCIe, 1 x PCIe1
- 2 SATA II, 6 COM (5V/ 12V), 8 USB, 8-bit GPIO
- Size: 170mm x 170mm



EMX-H61

Intel® Core™/ Pentium®/ Celeron® Mini ITX Motherboard with Intel® H61 Express Chipset

- Intel® LGA1155 Socket Supports Core™ i7/ i5/ i3, Pentium® and Celeron® Processors
- Intel® H61 Express Chipset
- Two 240-pin DIMM Sockets Up to 8GB Dual Channel DDR3 1066/ 1333MHz SDRAM
- VGA, DVI-D, HDMI
- Realtek ALC892 Supports 7.1-CH HD Audio
- Dual Broadcom® 57788 Gigabit Ethernet
- 1 x Mini PCIe, 1 x PCIe16
- 4 SATA II, 2 USB 3.0, 8 USB 2.0
- Size: 170mm x 170mm



EMX-PNV

Intel® Atom™ PNV-M/ PNV-D Mini ITX Motherboard with Intel® ICH8-M Chipset

- Intel® Pineview-M/ Pineview-D Series CPU
- Intel® ICH8-M Chipset
- One 200-pin SODIMM Up to 2GB DDR2 667MHz SDRAM
- Dual View, VGA, 18-bit LVDS, Optional 48-bit LVDS Output
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Dual Intel® 82583V Gigabit Ethernet
- 1 PCI, 1 Mini PCI Express, 1 CF
- 2 SATA/ SATA II, 4 COM, 8 USB, 16-bit GPIO
- ATX/ AT Power Mode
- TPM 1.2 (Optional)
- Size: 170mm x 170mm



EMX-G41

Intel® Core™ 2 Quad/ Core™ 2 Duo Mini ITX Motherboard with Intel® G41 + ICH7-R Chipset

- Intel® LGA775 Socket Supports Intel® Core™ 2 Quad/ Core™ 2 Duo CPU
- Intel® G41/ ICH7-R Chipset
- One 240-pin DIMM Up to 2GB DDR2 667/ 800MHz SDRAM
- Intel® Graphics Media Accelerator 4500
- Dual View, VGA, LPT
- Realtek ALC888 Supports 5.1+2-CH HD Audio
- Dual Realtek RTL8111DL Gigabit Ethernet
- 1 PCIe16, 2 SATA/ SATA II
- 2 COM (5V/ 12V), 6 USB, 8-bit GPIO
- RAID 0, 1
- Size: 170mm x 170mm



EMX-M780E

AMD Athlon/ Athlon X2/ Quad-Core™ AMD Phenom™ Mini ITX Motherboard with AMD RS780E + SB710 Chipset

- AM2/ AM2+ Socket Support Athlon/ Athlon X2/ Quad-Core™ AMD Phenom™ Processors
- AMD RS780E/ SB710 Chipset
- Two 200-pin SODIMMs Up to 4GB DDR2 800MHz SDRAM
- Dual View, 2-CH LVDS, HDMI
- ALC888 Supports 5.1-CH HD Audio
- Dual Realtek RTL8111D Gigabit Ethernet
- 1 CF, 1 PCIe16, 1 Mini PCIe
- 2 SATA, 8 USB, 4 COM, 8-bit GPIO
- Size: 170mm x 170mm



EMX-945GSE

Intel® Atom™ N270 Mini ITX Motherboard with Intel® 945GSE + ICH7-M Chipset

- Onboard 45nm Intel® Atom™ N270 1.6GHz
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Up to 2GB DDR2 533MHz SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 950
- Dual View, 2-CH LVDS
- DVI for EMX-945GSE-A1-DVIR only
- 5.1-CH HD Audio, 6W AMP
- Dual Realtek RTL8111C Gigabit Ethernet
- 1 PCI 2.3, 1 Mini PCIe1
- 1 CF, 4 COM, 2 SATA, 6 USB, 8-bit GPIO
- Size: 170mm x 170mm



EMX-A55E

AMD G-Series Mini ITX Motherboard with A55E Controller Hub Chipset

- AMD G-Series T56N 1.6GHz/ T40N 1.0GHz CPU
- AMD A55E Controller Hub Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB DDR3 1066 SDRAM
- AMD Radeon HD 6310/ HD 6250 Graphics
- Dual View, HDMI, VGA, 18-bit Single-channel LVDS
- Realtek ALC892 Supports 7.1-CH HD Audio
- Dual Realtek RTL8111DL Gigabit Ethernet
- 1 PCIe4, 1 Mini PCIe, 1 CFast
- 5 SATA 3.0, 4 COM, 8 USB, 8-bit GPIO
- RAID 0, 1, 5, 10 Support
- Size: 170mm x 170mm



EMX-GM45E

Intel® Core™ 2 Duo Mini ITX Motherboard with Intel® GM45 + ICH9-M Chipset

- Supports 45nm Intel® µFC-PGA/ BGA Socket-P Core™ 2 Duo CPU
- Intel® GM45/ ICH9-M Chipset
- Two SODIMMs Up to 4GB DDR2 667/ 800 SDRAM
- Intel® Graphic Media Accelerator HD4500
- Intel® 82574L & Intel® 82567LM Gigabit Ethernet
- Realtek ALC888 7.1-CH Audio, 6W AMP
- 1 CF, 1 PCIe16, 4 SATA II, 4 COM, 8 USB, 16-bit GPIO
- iAMT 4.0
- Size: 170mm x 170mm



Industrial MB - ACP Series



Applied Computing Platform - ACP Series

ACP Series Developing Process



Gaming

ACP-GM series

- ESD Protection
- Battery backup SRAM
- 3D Graphics
- CCTalk
- Dual View
- Intrusion Detection
- Data Protection
- Extend I/O Interface



ACP-PNVDV

Intel® Atom™ PNV-D Mini ITX Motherboard with Intel® ICH9-R Chipset

- Onboard Intel® Pineview-D D525 CPU
- Intel® ICH9-R Chipset
- One 204-pin SODIMM Socket Supports Up to 4GB Dual-channel DDR3 800MHz SDRAM
- Integrated Intel® Gen3.5 + GFX Render Core 400MHz (Pineview-D)
- VGA, Single-channel 18-bit LVDS (Optional)
- Dual Intel® 82583V Gigabit Ethernet
- 1 CF, 1 Mini PCIe, 1 PClex1
- 5 SATA/ SATA II, 1 eSATA, 2 COM, 8 USB 2.0, 16-bit GPIO
- RAID 0, 1, 5, 10
- Size: 170mm x 170mm



ACP-GM45

Intel® Core™ 2 Duo Mini ITX Gaming Board with Intel® GM45 + ICH9-M Chipset

- Supports 45nm Intel® µFC-PGA/BGA Socket-P Core™ 2 Duo CPU
- Intel® GM45/ ICH9-M Chipset
- Two 200-pin SODIMMs Sockets Support Up to 4GB DDR2 667/800 MHz SDRAM
- Intel® Graphics Accelerator 4500MHD
- Dual View, 2-CH 18/24-bit LVDS, Dual VGA
- 7.1+2-CH Audio, 6W Amplifier, Dual GbE
- 1 CF, 1 PCI, 8 USB, 4 SATA, 3 COM, 2 CC Talk
- 32 Isolated DI, 32 Darlingtion DO
- 1 x 1MB Battery Backup SRAM, Optional Up to 4MB
- JAMMA Interface
- Size: 170mm x 200mm



Digital Signage



POS/ KIOSK



Digital Surveillance

ACP-DS series

- AMD/ VIA/ Intel® Celeron®/ Atom™ to Core™ 2 Duo CPU
- Exceptional Multi Media Performance
- Various video I/F: VGA/ LVDS/ DVI/ HDMI
- HD Audio, Multiple Audio streaming/ AMP/ SPDIF

ACP-POS series

- COMs, USB, PCI, CF
- Entry to high performance CPU power
- DC to ATX power module
- LVDS LCD interface
- Fanless operation
- System longevity and Stability
- Competitive price/ performance ratio

ACP-DV series

- High Performance platform
- SATA RAID for Heavy Storage
- Multi Streaming Audio, Dual View
- PCI/ PCIe/ PClex16 for Capture Cards
- Rich I/O design for expansion
- iAMT for Remote Management
- RAID Function Supported



ACP-GM45DS

Intel® Core™ 2 Duo Mini ITX Digital Signage Board with Intel® GM45 + ICH9M-E Chipset

- Intel® Supports Socket-P Core™ 2 Duo Mobile CPU with 65nm Process Technology
- Intel® GM45/ ICH9M-E Chipset
- Two 200-pin SODIMMs Sockets Support Up to 8GB 2-CH DDR2 800MHz SDRAM
- Intel® Graphics Accelerator 4500MHD
- Display: VGA/ DVI/ LVDS
- Realtek ALC888 5.1+2 CH Audio Streams, 6W x 2-CH Amplifier
- Intel® 82567LM Gigabit Ethernet, Intel® 82574L PCI-E Gigabit Ethernet
- 1 Mini PCIe, 1 PClex1, 1 CF, 1 PCI 2.3
- 5 COM, 8 USB, 4 SATA, 8-bit GPIO
- TPM 1.2, iAMT 4.0
- Size: 170mm x 170mm



ACP-Q45DV2

Intel® Core™ 2 Quad/ Core™ 2 Duo ATX Motherboard with Intel® Q45 + ICH10DO Chipset

- Intel® LGA775 Socket for Core™ 2 Quad / Core™ 2 Duo CPU
- Intel® Q45/ ICH10DO Chipset
- Four 240-pin DIMMs Sockets Support Up to 8GB DDR3 800/ 1066/ 1333MHz SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 4500
- 5.1+2-CH Audio Streams
- Dual Realtek RTL8111SC Gigabit Ethernet
- 2 PClex16, 4 PClex1, 1 PCI 2.3
- 2 Powered COM, 12 USB, 5 SATA II, 1 eSATA
- Auto-on After Power Failure
- Size: 304.8mm x 243.84mm



ACP-945GDS

Intel® Atom™ Processor N270 Mini ITX Digital Signage Board with Intel® 945GSE + ICH7-M Chipset

- Intel® Atom™ Processor N270 1.6 GHz
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Socket Supports Up to 2GB DDR2 533 MHz SDRAM
- Intel® Graphics Media Accelerator 950
- VGA, 2-CH 18-bit LVDS, HDMI
- Realtek ALC888 5.1-CH HD Audio Streams
- Dual Intel® 82574L Gigabit Ethernet
- 1 Mini PCIe, 1 CF, 1 PCI, 1 LPT
- 6 COM, 6 USB, 2 SATA, 8-bit GPIO
- Fanless Operation
- +12V DC Input
- Size: 170mm x 170mm



ACP-Q45DV

Intel® Core™ 2 Quad/ Core™ 2 Duo Micro ATX Motherboard with Intel® Q45 + ICH10DO Chipset

- Supports Intel® Core™ 2 Quad/ Core™ 2 Duo CPU
- Intel® Q45/ ICH10DO Chipset Supports Intel® AMT 5.0 & vPro
- Four 240-pin DIMMs Sockets Support up to 8GB DDR2 800/ 667MHz SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 4500
- Realtek ALC888 Supports 5.1+2-CH Audio Streams
- Intel® 82567-LM PCI-E Gigabit Ethernet
- 1 PClex16, 1 PClex1, 2 PCI 2.3
- 2 Powered COM, 12 USB, 6 SATA II, 16-bit GPIO
- TPM 1.2
- Size: 243.84mm x 243.84mm

Applied Panel Computing - SPC



SPC Series

Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

- Full IP-65
Water-proof
- Oil
-proof
- Scratch
-proof
- Corrosion
-proof
- Wide
Voltage
- Stainless

Product Features

Super Scratch-proof Panel

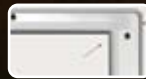
SPC Series offer a high level of hard glass to provide SAA panels. It is resistant to scratches from nails, coins, keys sharp metal tools.

Sunlight Readable

With Avalue optical bonding technology, SPC provides sunlight-readable panel to improve the visual effects under strong sunlight

Features-Full IP-65/ Design for Water-proof

- ▶ **Full IP-65**
Multi-layer water-proof rubber O-ring to ensure the front IP-65 sealing
- ▶ **Water-draining design**
Special slanting rubber sits on the front panel to improve water draining
- ▶ **IP-67 Connector**
High level water/dust-proof connector; 100% prevents liquid penetration
- ▶ **Membrane Buttons**
Seamless, flat membrane buttons in front frame



Wide-vol./ Over Current Protection

- ▶ **Flexibility**
SPC supports 12-28V wide voltage range for more device connection, with different power voltages especially convenient for 24V industrial power input spec.
- ▶ **Safety**
Wide voltage gives high flexibility of usage and also secures the system from power input fluctuation
- ▶ **Over Current/Surge Protection**
SPC is equipped with over current/ surge protection ; power input will be stopped when current is over 28V to protect the system from damage

Applications for Reference



Restaurant Kitchen



Food Industry



Slaughter House



Central Kitchen



**Stainless:
Vandal-proof; Oil-proof**

▶ **Rust-proof; Resistance to corrosion**
Special coating surface to prevent oxidization to offer and protection from corrosion caused by acid and alkali

▶ **Stainless**
A smooth and glossy surface makes cleaning easy.

▶ **Vandal-proof/Resistance of high temp.**
Stainless offers vandal-proof and resistance to impact, alloy is made of in high melting point, to sustain high temperature.



Car-washing Machine



Waste Water Processing factory



SPC-1205/ 1207/ 12A4
Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

- Water Proof Solution, Full IP-65 Rating
- Stainless and Aluminum Housings Chassis Design
- SPC-1205: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- SPC-1207: Intel® Cedarview D2700 2.13GHz CPU
- SPC-12A4: AMD eOntario T40E 1.0 GHz CPU
- 1 Gigabit Ethernet, 1 COM, 3 USB
- 1 Membrane Power Button
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Backlight Controlled by PWM/ BIOS/ API.
- Power-on Timer
- Dimensions: 295mm x 240mm x 53mm
- VESA 75 x 75mm & 100 x 100mm



SPC-1505/ 1507/ 15A4
Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

- Water Proof Solution, Full IP-65 Rating
- Stainless and Aluminum Housings Chassis Design
- SPC-1505: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- SPC-1507: Intel® Cedarview D2700 2.13GHz CPU
- SPC-15A4: AMD eOntario T40E 1.0 GHz CPU
- 1 Gigabit Ethernet, 1 COM, 3 USB
- 1 Membrane Power Button
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Power-on Timer
- Dimensions: 371mm x 303mm x 60mm
- VESA 75 x 75mm & 100 x 100mm



SPC-1705/ 1707/ 17A4
Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

- Water Proof Solution, Full IP-65 Rating
- Stainless and Aluminum Housings Chassis Design
- SPC-1705: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- SPC-1707: Intel® Cedarview D2700 2.13GHz CPU
- SPC-17A4: AMD eOntario T40E 1.0 GHz CPU
- 1 Gigabit Ethernet, 1 COM, 3 USB
- 1 Membrane Power Button
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Power-on Timer
- Dimensions: 405mm x 348mm x 60mm
- VESA 75 x 75mm & 100 x 100mm



SPC-22W5/ 22W7/ 22W4
Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

- Water Proof Solution, Full IP-65 Rating
- Stainless and Aluminum Housings Chassis Design
- SPC-22W5: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- SPC-22W7: Intel® Cedarview D2700 2.13GHz CPU
- SPC-22W4: AMD eOntario T40E 1.0 GHz CPU
- 1 Gigabit Ethernet, 1 COM, 3 USB
- 1 Membrane Power Button
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Power-on Timer
- Dimensions: 546mm x 371mm x 65mm
- VESA 75 x 75mm & 100 x 100mm

Human-machine Solutions - LPC



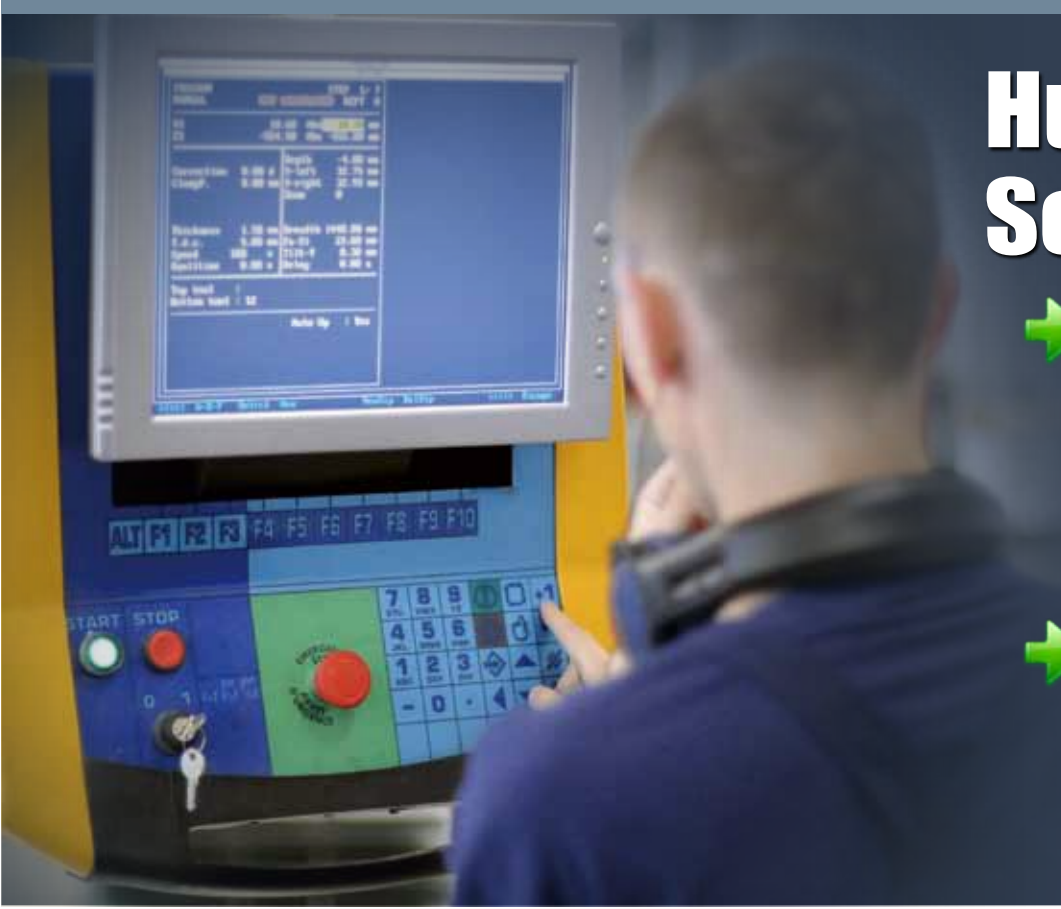
Panel Technology

- SAA (Super Anti-Abrasion) Panel Glass on Top Technology
- LED Backlight with PWM
- Sunlight Readable
- Privacy Filter upon Request



Outstanding EE Design

- Low Power Consumption
- Scalable System Performance
- Wide Temperature: -10~60°C
- Single 12V Power Input
- Onboard CPU/RAM



LPC-0803/ 08A1

Fanless 8" SVGA TFT
Multifunctional Touch Panel PC

- 8" SVGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- LPC-0803: Intel® Atom™ N270 1.6GHz CPU
LPC-08A1: AMD Geode LX800 @ 0.9W 500MHz
- VGA, Audio
- Dual Ethernet/ Gigabit Ethernet, Optional WiFi Module
- 1 CF, 2 COM, 2 USB (LPC-08A1)/ 4 USB (LPC-0803)
- Fanless & +12V Single Power Input
Wide Range Voltage Input +10V~28V (LPC-08A1)
- VESA Compliance
- IP-65 Compliant Front Panel
- Dimensions: 202 x 159 x 43mm (w/ HDD 202 x 159 x 55mm)



LPC-1005/ 1007/ 10A4

Fanless 10.4" XGA TFT
Multifunctional Touch Panel PC

- LPC-1005: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
LPC-1007: Intel® Cedarview D2700 2.13GHz CPU
LPC-10A4: AMD eOntario T40E 1.0 GHz CPU
- VGA/ HDMI, Audio, Gigabit Ethernet
- 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Backlight Controlled by PWM
- IP-65 Compliant Front Panel
- Timer-Power-On
- Dimensions: 259mm x 196mm x 41mm



LPC-0805/ 0807/ 08A4

Fanless 8" SVGA TFT
Multifunctional Touch Panel PC

- 8" SVGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- LPC-0805: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
LPC-0807: Intel® Cedarview D2700 2.13GHz CPU
LPC-08A4: AMD eOntario T40E 1.0 GHz CPU
- VGA/ HDMI, Audio
- Gigabit Ethernet, Optional WiFi Module
- 1 CF, 2 COM, 4 USB, No HDD Support
- Wide Range Voltage Input +10V ~ +28V
- Fanless, VESA Compliance
- IP-65 Compliant Front Panel
- Dimensions: 202.5mm x 159.5mm x 46.5mm



LPC-1205/ 1207/ 12A4

Fanless 12.1" XGA TFT
Multifunctional Touch Panel PC

- LPC-1205: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
LPC-1207: Intel® Cedarview D2700 2.13GHz CPU
LPC-12A4: AMD eOntario T40E 1.0 GHz CPU
- VGA/ HDMI, Audio, Gigabit Ethernet
- 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- Backlight Controlled by PWM
- IP-65 Compliant Front Panel
- Timer-Power-On
- Dimensions: 283mm x 222mm x 45mm

Interface Series

Mechanical Design Features

- Panel Size from 8~17"
- IP-65 Front Panel
- Fanless Operation
- VESA/Versatile Installations
- Panel Mount/Open Frame

Options and Customization

- Optional Extra 3 COMs
- WiFi, 3G, GPS Modules
- Whole System IP-65
- Various Panel Sizes
- Customized Chassis Design



LPC-1505/ 1507/ 15A4

Fanless 15" XGA TFT
Multifunctional Touch Panel PC

- LPC-1505: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- LPC-1507: Intel® Cedarview D2700 2.13GHz CPU
- LPC-15A4: AMD eOntario T40E 1.0 GHz CPU
- VGA/ HDMI, Audio, Gigabit Ethernet
- 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- IP-65 Compliant Front Panel
- Timer-Power-On
- Dimensions: 350mm x 274mm x 53mm



LPC-1705/ 1707/ 17A4

Fanless 17" XGA TFT
Multifunctional Touch Panel PC

- LPC-1705: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- LPC-1707: Intel® Cedarview D2700 2.13GHz CPU
- LPC-17A4: AMD eOntario T40E 1.0 GHz CPU
- VGA/ HDMI, Audio, Gigabit Ethernet
- 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- IP-65 Compliant Front Panel
- Timer-Power-On
- Dimensions: 382mm x 320mm x 58.8mm

Power Consumption

Condition:

Power on-Boot sequency: Measure the maximum current value between system power on and boot-up to O.S.

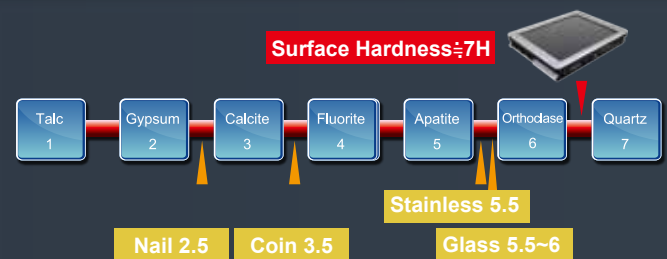
Dos Idle mode: Measure the current value when system is in DOS mode and not running any Program

Win. Idle mode: Measure the current value when system is in windows mode and not running any Program

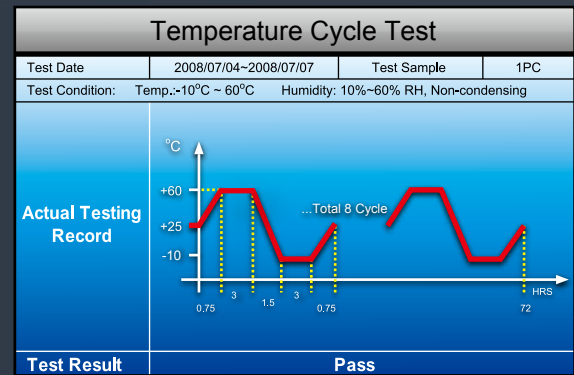
Max. load: Measure the maximum current value when system is under maximum load (CPU: Top speed, RAM & Graphic: Full loading)

Condition	Power Consumption (A or mA)						Note/ Issue ID
	Power on-Boot procedure	S1	S3	S5	Max. load	Testing Software	
+12V	1.55	0.57	0.05	0.04	1.86	2	
Total	= 22.32 W						

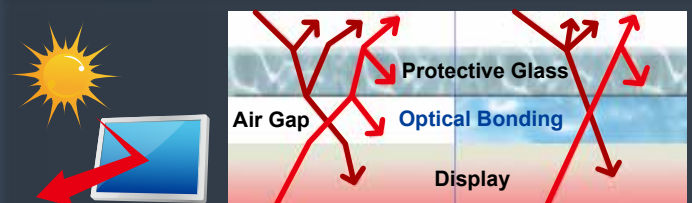
Anti-Abrasion



Thermal Test: -10~60°C Operation Temperature



Sunlight Readable



POS/ Kiosk Solutions

Quickly Build-up Your own POS/ KIOSK Machine

Scalable System

Define Your Expectation

- Panel Size:
Ranges from 8~22"
- System Core: CPU
 - Intel: Celeron/ Pentium/ Atom/ Core Duo/ Core 2 Duo
 - VIA -AMD

Key-Parts Selection

Select Key Parts for your System

- Internal Board
3.5" SBC/ Mini-ITX based system
- Chassis & Frame
Style/ materials of chassis and panel frame
- Panel Resolution
Resolution/ Touch/ SAA/ Sunlight Readable
- Storage
CF/ 2.5" HDD/ RAM
- OS
Linux/Windows



FPC-08W04/ 08WA1

Fanless 8.9" WSVGA TFT Multifunctional Touch Panel PC w/ Single-Core

- 8.9" WSVGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-08W04: Intel® Atom™ N270 1.6GHz CPU
FPC-08WA1: AMD Geode LX800 @ 0.9W 500MHz
- VGA, Audio, Ethernet, Optional WiFi Module
- 1 CF, 2 COM, USB
- +12V Single Power Input (FPC-08W04)
Wide Range Voltage Input +10V ~ 28V (FPC-08WA1)
- Fanless Operation, VESA Compliance
- IP-65 Compliant Front Panel
- Dimensions: 225mm x 139mm x 38.9mm



FPC-10W04/ 10W07/ 10WA4

10" WSVGA TFT Touch Panel PC

- 10" WSVGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-10W04: Intel® Atom™ D525 Dual Core 1.8GHz CPU
FPC-10W07: Intel® Cedarview D2700 2.13GHz CPU
FPC-10WA4: AMD eOntario T40E 1.0GHz CPU
- VGA, Audio
- Dual Gigabit Ethernet, Optional WiFi Module
- 1 CF, 2 COM, USB
- Supports 2.5 HDD
- +12V ~ +28V DC Power Input
- Fanless, VESA Compliance
- IP-65 Compliant Front Panel
- Dimensions: 300mm x 195mm x 56mm



FPC-08W05/ 08W07/ 08WA4

Fanless 8.9" WSVGA TFT Multifunctional Touch Panel PC w/ Dual-Core

- 8.9" WSVGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-08W05: Intel® Atom™ D525 Dual Core 1.8GHz CPU
FPC-08W07: Intel® Cedarview D2700 2.13GHz CPU
FPC-08WA4: AMD eOntario T40E 1.0GHz CPU
- VGA, Audio, Gigabit Ethernet
- 1 CF, 2 COM, USB
- Wide Range Voltage Input +12V ~ +28V
- +12V Single Power Input (FPC-08WA4)
- -10°C ~ 60°C Wide Working Temp.
- Fanless, VESA Compliance
- IP65 Compliant Front Panel
- Dimensions: 225mm x 139mm x 42mm



FPC-1706/ 1707

17" SXGA TFT Touch Panel PC

- 17" SXGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-1706: Intel® Core™ i5-520E 2.4GHz CPU
FPC-1707: Intel® Cedarview D2700 2.13GHz CPU
- VGA, HDMI, Audio, 2 x 2W Speakers
- Gigabit Ethernet, Optional WiFi Module
- 1 Mini PCIe, 2 COM, 5 USB
- Supports 2.5" SATA HDD
- IP-65 Compliant Front Panel
- VESA Compliance
- Dimensions: 387.5mm X 346mm X 76.6mm

- FPC Series

Options & Customization

Enhance the system if any special features required

- WiFi Module
- CAN Bus
- PoE (Power over Ethernet)
- Installation Accessories
- Open Frame model for your own enclosures
- Peripheral Cards for extended functions



FPC-18W06/ 18W07

18.5" WXGA TFT Touch Panel PC

- 18.5" WXGA TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-18W06: Intel® Core™ i5-520E 2.4GHz CPU
- FPC-18W07: Intel® Cedarview D2700 2.13GHz CPU
- VGA, HDMI, Audio, 2 x 2W Speakers
- Gigabit Ethernet, Optional WiFi Module
- 1 Mini PCIe, 2 COM, 5 USB
- Supports 2.5" SATA HDD
- IP-65 Compliant Front Panel
- VESA Compliance
- Dimensions: 459.5mm X 309mm X 79.6mm



FPC-21W06/ 21W07

21" Full HD TFT Touch Panel PC

- 21" Full HD TFT Touch Panel PC
- 5-wire Resistive Touch Screen
- FPC-21W06: Intel® Core™ i5-520E 2.4GHz CPU
- FPC-21W07: Intel® Cedarview D2700 2.13GHz CPU
- VGA, HDMI, Audio, 2 x 2W Speakers
- Gigabit Ethernet, Optional WiFi Module
- 1 Mini PCIe, 2 COM, 5 USB
- Supports 2.5" SATA HDD
- IP-65 Compliant Front Panel
- VESA Compliance
- Dimensions: 536mm X 346.5mm X 80.4mm

OPM Introduction

To provide a more user-friendly digital signage solution to the emerging Digital Signage Market, Avalue now launches the OPM product line complying with Intel OPS (Open Pluggable Specification). With this open standard, users only need to replace their interchangeable module instead of the whole unit, greatly reducing installation and maintenance cost.

Moreover, OPM is designed with flexible Q7 CPU module, giving users the option of different platforms according to their various demands.

OPM Features

- One-Stop-Shopping Bundled Solution
- Interoperable module with low installation and
- Unified Digital Signage standard
- Low investment and maintenance cost
- Highly Flexible for different platforms
- Optional desktop foot stand for OPS monitor



Applications



Restaurant



Retail



Transportation



Hotel



Museum & Gallery



OPM-CDV

Fanless Open Pluggable Module Compliant with Intel® Open Pluggable Specification

- Onboard Intel® Cedarview N2800 1.86GHz CPU
- Intel® NM10 Chipset
- Interchangeable Qseven Module and Carrier Board
- Simplifies Digital Signage Development and Lower Down The Installation Cost
- Onboard 1G DDR3 1066
- 1 HDMI, 1 Gigabit Ethernet, 1 Line-out
- 1 COM, 2 USB, 1 Mini PCIe
- Supports 2.5" HDD/ SSD
- 12 ~ 19V DC-in from Monitor Side
- Dimensions: 200mm x 119mm x 30mm



Interactive Client Solutions - PPC Series

Flexible, Scalable, and Cost-Effective Solutions
for Your Interactive Clients

PPC Features

RFID

(Radio Frequency Identification;
Internal & External Type)

- Supply Chain Management
- Health Care
- Bio-identification
- Tracking

MSR

(Magnetic Strip Reader)

- User Identification
- Information Acquiring
- Cash Flow

Programmable Function Keys

- User Friendly
- Programmable Front Panel Key
- Drivers installed
- Evaluation Kit



PPC-1505/ 1507/ 15A4

Fanless 15" XGA TFT
Multifunctional Plastic Panel PC

- 15" 5-wire Resistive XGA TFT
- PPC-1505: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- PPC-1507: Intel® Cedarview D2700 2.13GHz CPU
- PPC-15A4: AMD eOntario T40E 1.0 GHz CPU
- GbE, Audio, 2W Amplifier
- 1 CF, 2 USB, 1 COM & 1 Mini-PCle
- Wide Voltage +12V ~ +28V, ErP Power
- Fanless Operation, VESA Compliance
- Programmable Function Key
- Dimensions: 340mm x 285mm x 53mm



PPC-18W5/ 18W7/ 18W4

Fanless 18" WXGA TFT
Multifunctional Plastic Panel PC

- 18.5" 5-wire Resistive WXGA TFT
- PPC-18W5: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- PPC-18W7: Intel® Cedarview D2700 2.13GHz CPU
- PPC-18W4: AMD eOntario T40E 1.0GHz CPU
- Onboard RAM & 1 SODIMM Up to 4GB DDR3 SDRAM
- Gigabit Ethernet, 2W Amplifier
- Mini PCIe, 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- Programmable Function Key
- Dimensions: 443mm x 290mm x 59.8mm



PPC-1705/ 1707/ 17A4

Fanless 17" SXGA TFT
Multifunctional Plastic Panel PC

- 17" 5-wire Resistive XGA TFT
- PPC-1705: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- PPC-1707: Intel® Cedarview D2700 2.13GHz CPU
- PPC-17A4: AMD eOntario T40E 1.0GHz CPU
- GbE, Audio, 2W Amplifier
- 1 CF, 2 USB, 1 COM & 1 Mini-PCle
- Wide Voltage +12V ~ +28V, ErP Power
- Fanless Operation, VESA Compliance
- Programmable Function Key
- Dimensions: 372mm x 324mm x 53mm



PPC-21W5/ 21W7/ 21W4

Fanless 21" FHD TFT
Multifunctional Plastic Panel PC

- 21" 5-wire Resistive Full HD TFT
- PPC-21W5: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- PPC-21W7: Intel® Cedarview D2700 2.13GHz CPU
- PPC-21W4: AMD eOntario T40E 1.0GHz CPU
- Onboard RAM & 1 SODIMM Up to 4GB DDR3 SDRAM
- Gigabit Ethernet, 2W Amplifier
- Mini PCIe, 1 CF, 1 COM, 2 USB
- Wide Voltage +12V ~ +28V Input, ErP Power
- IP-65 Compliant Front Panel
- Programmable Function Key
- Dimensions: 516mm x 331mm x 55mm

Digital Signage Solutions - MPC Series

Hardware

Touch Panel Technology

- Industrial Grade Panel
- IP-65 Water/Dust Proof
- 5-Wire Resistive
- High Luminance
- High Contrast Ratio
- High Resolution
- Various Sizes for Options
- Glass-on-Top

Rich I/O Design

- SATA, COM, USB, GPIO, CF
- PCI, PCIe, Mini PCI, Mini PCIe for Diverse Applications

Headquarters / Control Center

Network

- Dual LAN/Dual Gigabit LAN
- Wireless LAN:WiFi/Bluetooth
- Optional Remote Control

Multi-Media Performance

- Latest Chipset
- 3D Accelerator
- Dual View
- MPEG2/4/WMV
- Speakers/Amplifier
- Multiple Audio Streams
- Camera

Installation

- VESA Compliant Accessories
- Optional Open Frame Design

Software

Embedded OS
AP/API: Optional AP or API for your SW development

To match your AP, Avalue solutions are compatible with:

Multimedia Content Type:
JPG, MOV, WMV, MPEG, AVI...
Connect I/F:
VGA/ LVDS/ DVI/ HDMI...
by request



Applications



MPC-10W5/ 10W7/ 10W4

10"1 WSVGA Fanless
Multi-Media Touch Panel PC

- 10.1" Multi Media Panel Computer
- MPC-10W5: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- MPC-10W7: Intel® Atom™ Dual-Core D2700 2.13GHz CPU
- MPC-10W4: AMD T40E Dual Core 1.0GHz CPU
- Gigabit Ethernet, Audio, 2W AMP
- 1 CF, 1 COM, 3 USB
- Optional 1.3M Camera, WiFi Module
- Fanless System & VESA Compliance
- Wide Voltage +12V ~ +28V Input, ErP Power
- Full Aluminum Design for 1.24kg Only
- Timer-Power-On, IP65 Compliant Front Panel
- Dimensions: 252.8mm x 190mm x 44.4mm



MPC-10W5-MTCH

Fanless 10"1 WSVGA Multi-touch Panel PC
with Atom™ Dual Core Solution

- 10.1" WSVGA Digital Signage Touch Panel PC
- Onboard Intel® Atom™ Dual Core D525 1.8GHz CPU with ICH8-M Chispet
- Onboard 1GB SDRAM, Multi-touch Solution
- Intel® 82574L Gigabit Ethernet, 5.1-CH Audio, 2W AMP
- 1 CF, 1 COM, 2 USB, 2.5" HDD Support (7+15 SATA)
- Optional 1.3M Camera, WiFi Module, Mini PCIe
- Front Panel IP-65 Compliance
- Fanless System & VESA Compliance
- +12 ~ 28V Wide Voltage Input, ErP Power
- Full Aluminum Design for 1.22kgs Only
- Timer-Power-On
- Dimensions: 260mm x 185mm x 40.9mm



MPC-21W5/ 21W7/ 21W4

21" HD Fanless Multi-Media
Touch Panel PC

- 21.6" HD Digital Signage Panel PC
- MPC-21W5: Intel® Atom™ D525 Dual-Core 1.8GHz CPU
- MPC-21W7: Intel® Atom™ Dual-Core D2700 2.13GHz CPU
- MPC-21W4: AMD T40E Dual Core 1.0GHz CPU
- Gigabit Ethernet, Audio, 2W AMP
- 1 CF, 1 COM, 2 USB
- Optional 1.3M Camera, WiFi Module
- Fanless System & VESA Compliance
- Wide Voltage +12V ~ +28V Input, ErP Power
- Timer-Power-On, Front Panel IP65 Compliance
- Dimensions: 508.2mm x 301.3mm x 53.1mm



MPC-21W5-MTCH

21" HD Fanless Multi-touch Panel PC
with Atom™ Dual Core Solution

- 21.6" Digital Signage Panel PC
- Onboard Intel® Atom™ Dual-Core D525 1.8GHz CPU
- Intel® ICH8-M Chispet
- Multi-touch Screen with USB Interface (OS: Win 7)
- 1 CF, 1 COM, 2 USB, 1 VGA, 1 GbE, 2 Mini PCIe
- Supports 2.5" HDD
- Optional Mini PCIe WiFi
- Fanless System & VESA Compliance
- Wide Voltage +12V ~ +28V Input, ErP Power
- Timer-Power-On
- IP-65 Compliant Front Panel
- Dimensions: 546.96mm x 333.6mm x 62.8mm

Multi-touch Solution

In order to provide products to our clients who are looking for a dynamic touch solution, Avalue is now introducing new multi-touch solutions in several product lines including APC, MPC and TPC. Integrated with Windows 7, our multi-touch solution is driver-free and gives better touch consistency. With its better interactivity, the multi-touch panel PC will help our client reduce personnel expense and greatly increase customer satisfaction

Features

- High Interactivity and Sensitivity
- Intuitive Operation
- Sleek design
- Wide range of applications
- Getting rid of keyboard and mouse
- Operated with Window 7

Applications



Retail Service



Manufacturing



Financial Service



Medical Environment



Tourism



Advertisement



Information Station



Gaming



APC-18W5

18" WXGA TFT Fanless Plastic Multi-Touch Full Flat Panel PC

- Projected Capacitive Touch Supports Multi-touch
- Intel® Atom™ D525 Dual Core 1.8GHz CPU
- 1 Gigabit Ethernet, 2W Amplifier
- 1 CF, 2 USB, 1 COM & 1 Mini-PCIe
- Wide Voltage +12V ~ +28V Input, ErP Power
- Timer-Power-On
- IP-55 Compliant Front Panel
- Programmable Function Key
- Dimensions: 443mm x 290mm x 59mm



APC-1505

15" XGA TFT Fanless Plastic Multi-Touch Full Flat Panel PC

- Projected Capacitive Touch Supports Multi-touch
- Onboard Intel® Atom™ Dual-Core D525 1.8GHz CPU
- Intel® ICH8-M Chipset
- 1 Gigabit Ethernet, 2 x 1W Speaker
- 1 CF, 2 USB, 1 COM, 1 Mini-PCIe
- Wide Voltage +12V ~ +28V Input, ErP Power
- Flush Touch Screen Enables Easy Cleaning
- Lockable OSD Buttons
- Dimensions: 364.4mm x 294.3mm x 61.8mm



APC-21W5

21.5" FHD TFT Fanless Plastic Multi-Touch Full Flat Panel PC

- Projected Capacitive Touch Supports Multi-touch
- Onboard Intel® Atom™ Dual-Core D525 1.8GHz CPU
- Intel® ICH8-M Chipset
- 1 Gigabit Ethernet, 2 x 1W Speaker
- 1 CF, 4 USB, 2 COM, 1 Mini-PCIe
- Wide Voltage +12V ~ +28V Input, ErP Power
- Flush Touch Screen Enables Easy Cleaning
- Lockable OSD Buttons
- Dimensions: 517.4mm x 313.3mm x 55.1mm

Medical Solutions - MTP Series

Leveraging from the best practices and methodology, Avalue provides a full set of product development services from beginning to end in any project. A series of smart touch panel PCs have been developed in response to the current fast-growing demand for instant information access, entertainment, and e-business transactions. These innovative terminals are designed for maximum flexibility and versatility, and can be customized to offer a unique and compelling system using our medical service.



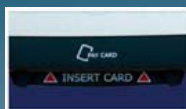
VoIP Telephony

To keep patients in touch with families/ medical personnel



Membrane Keypads

Easy access of entertainment system including audio/ video/ Skype/ TV...etc



Smart Card Reader

Security/ Payment Management

MTP Features



Flashing Alert & Buzzer

Avoid noise brought by ringing tone/ friendly for hearing impaired people



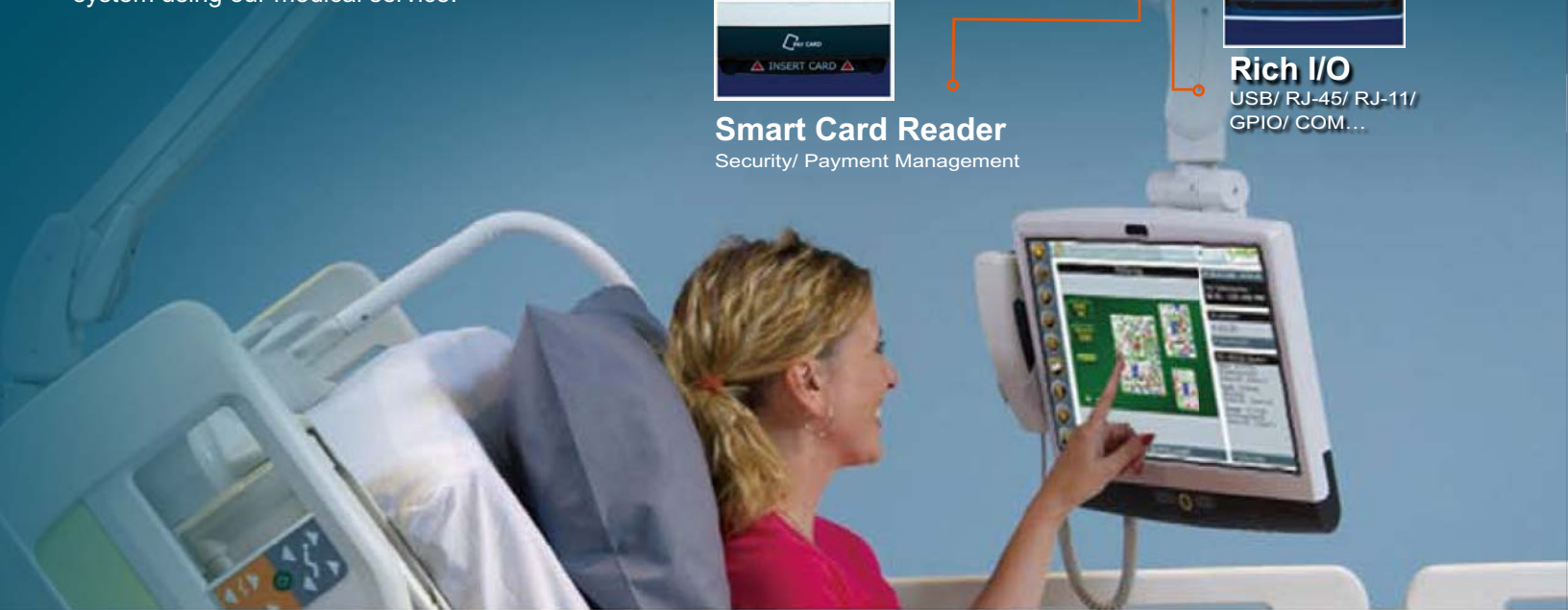
Touch Screen

5-wire Resistive IP-65 Compliant Front Panel



Rich I/O

USB/ RJ-45/ RJ-11/ GPIO/ COM...



MTP-1205/ 1207/ 12A4

Fanless 12.1" TFT Multifunctional Touch Panel PC

- 12.1" TFT LCD Display, Shatterproof Touch Screen
- MTP-1205: Intel® Atom™ D525 Dual Core 1.8GHz CPU
- MTP-1207: Intel® Cedarview D2700 2.13GHz CPU
- MTP-12A4: AMD eOntario T40E 1.0GHz CPU
- Gigabit Ethernet, 2 x 2W Speakers
- Mini PCIe, 1 CF, 1 COM, 2 USB
- Optional 2M Camera, MSR, VoIP & Barcode Scanner
- Wide Voltage +12V ~ +28V Input, ErP Power
- Over Current & Surge Protection
- IP-65 Compliant Front Panel & IPX1 Top Side
- Anti-Bacteria Plastic Material
- Fanless Operation, Timer-Power-On
- Dimensions: 310mm x 260mm x 51mm
- VESA 75mm x 75mm



MTP-1503

Fanless 15" TFT Multifunctional Touch Panel PC

- Onboard Intel® Atom™ N270 1.6GHz CPU
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Up to 2GB DDR2 400/ 533 SDRAM
- 5.1-CH Audio, 1 Ethernet, 2W Amplifier
- 4 USB, 1 DVI-A, and Mini PCIe
- Supports 2.5" SATA HDD
- Single +19V, Fanless Operation
- IP-65 Compliant Front Panel
- Dimensions: 442mm x 349mm x 70mm
- VESA 75mm x 75mm



Avalue RISC Platform: A Choice Beyond X86 Platform

Knowing arising demands in market, Avalue teams up to develop new RISC products with our experience and expertise in embedded computing. RISC series feature “3 Savings” :

Space-Saving



Avalue's RISC is given with small size, 2.5" and SODIMM size

Energy-Saving



Each product is designed with low TDP and estimated power consumption is less than 1W (w/conditions)

Cost-Saving



By deducting redundant functions, execution process and hardware, total cost could be effectively controlled

RISC Applications for Reference

Small-size/ wide temp/ Low TDP

RISC platform is renown with it's small footprint, low thermal issue and wide operation temperature. These make RISC an ideal solution for automation and medical applications. By adding rich I/O, Avalue RISC is also suitable for human-machine interface or entry level digital signage controls.

Low Power Consumption/ Mobility

Mobility and Portability are the major trend in the future; RISC platform is the first choice for users to develop these kinds of devices due to the extremely low power consumption, especially compared with X86 platform. With an average power consumption less than 1W, duration of battery could be extended.



Automation



Human-machine Interface



Medical Device



Consumer Electronics



Hand-Held Devices



Portable Game Device



RPC-0501

5.7" ARM9 Based Fanless Panel PC

- 5.7" ARM9 Based Panel PC
- Onboard Nuvoton W90P910 ARM9 200MHz SoC
- Onboard 64MB SDRAM (Up to 128MB)
- Onboard 2MB NOR Flash (Boot System)
- Onboard 128MB NAND Flash (Storage)
- AC97 Audio, 10/ 100 LAN in RJ-45
- 1 COM, 2 USB
- Wide Operating Temperature: -20 ~ 60°C
- Low Profile, Low Power and Stylish Design
- Dimensions: 145.8mm x 117mm x 39.3mm



RPC-0801

8" ARM9 Based Fanless Panel PC

- 8" ARM9 Based Panel PC
- Onboard Nuvoton W90P910 ARM9 200MHz SoC
- Onboard 64MB SDRAM (Up to 128MB)
- Onboard 2MB NOR Flash (Boot System)
- Onboard 128MB NAND Flash (Storage)
- AC97 Audio, 10/ 100 LAN in RJ-45
- 1 COM, 2 USB
- Optional Onboard Battery Charger
- Wide Operating Temperature: -20~60°C
- Low Profile, Low Power and Stylish Design
- Dimensions: 202mm x 159mm x 43 mm



RPC-10W1

10.1" WSVGA TFT RISC Multifunctional Panel PC

- Freescale i.MX51 800MHz Processor
- Onboard 512MB DDR2 SDRAM
- Onboard 4GB MLC NAND Flash
- 2 USB, 2 COM
- 10/100 LAN, SD Socket
- Fanless & Slim Design
- Single +12V
- Dimensions (W x L x D): 252.8mm x 164mm x 41.3mm



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