

ABP-2045A

Slim Embedded System with Quad Core Intel® E3845, 4 Gigabit LAN, 6 COM, 5 USB, 8 GPIO, Fanless, Rugged, Extended Temperature

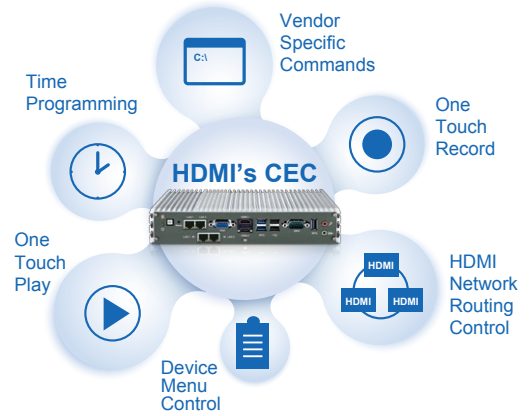
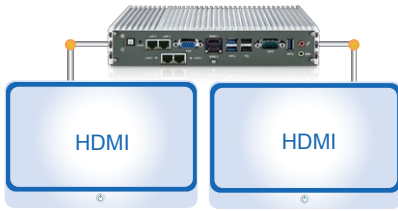


- Quad Core Intel® Atom™ E3845 1.91GHz Processor (Valleyview)
- Rugged, -25°C to 70°C Operating Temperature
- Fanless, Slim and Compact Design
- Dual Display : VGA/ dual HDMI/ LVDS
- 6 External COM, 8 External GPIO
- 4 Gigabit LAN, 3 USB 3.0, 2 USB 2.0
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- Optional Onboard GPS
- EN 50155 Compliant

ABP-2045A is equipped with Quad Core Intel® Atom™ E3845 1.91GHz Processor and DDR3L single channel 8GB memory, 2 HDMI display, 2 RS-232, 4 RS-232/422/485, 4 Independent Gigabit LAN, one internal 2.5" SATA II 3Gbps SSD/ HDD, 3 USB 3.0, 2 USB 2.0, and 1 Mini PCIe. ABP-2000 series is in fanless smart form factor and capable of operating under wide temperatures from -25°C to +70°C for harsh environments. With cutting-edge graphics and computing technologies, ABP-2000 series enable to present high quality resolution 3D display as low power consumption. Design with 6 COM to satisfy various applications' control and connection requirements, ABP-2000 series still keep fanless and wide operation temperature plus with EN 50155 standard and cable-less arrangement for industrial harsh environment. ABP-2000 series is ideal for information display in harsh environment,

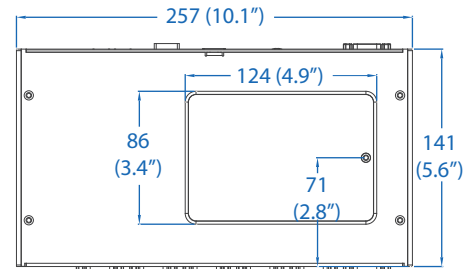
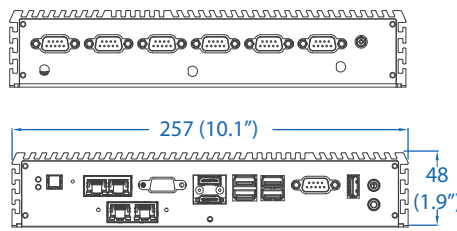
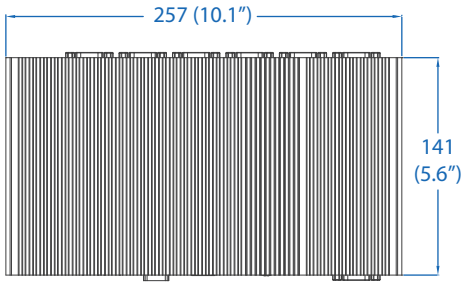


Compact Design, Quality Graphics



Dimensions & Drawing

Unit: mm (inch)



Specifications

System

Processor	Quad Core Intel® Atom™ E3845 1.91GHz Processor
Chipset	Intel® SoC (Bay Trail)
Memory	1 DDR3L 1333MHz SO-DIMM, up to 8GB
Video	<ul style="list-style-type: none"> • 1 DB 15 VGA • 2 HDMI 1.4 (Optional CEC Control) • Optional BOM: Dual Channel LVDS
Audio	1 Mic-in, 1 Line-out
Software Support	Windows 8, Windows 7, Linux

I/O Interface

Serial	<ul style="list-style-type: none"> • 4 COM RS-232/ 422/ 485 • 2 COM RS-232
LAN 1	Gigabit LAN by Intel® 82574L
LAN 2	Gigabit LAN by Intel® 82574L
LAN 3	Gigabit LAN by Intel® 82583V
LAN 4	Gigabit LAN by Intel® 82583V
USB	3 USB 3.0, 2 USB 2.0
GPIO	8 GPIO
Mini PCIe	<ul style="list-style-type: none"> • 1 Mini PCIe for PCIe/ USB/ SIM Card • 1 Mini PCIe for mSATA
	3 Pre-cast Hole for Antenna

Storage

SATA	1 SATA II (3Gbps)
mSATA	1 SATA II (Mini PCIe Type, 3Gbps)

Power

Power Input	9V to 28V, DC-in
Power Interface	DC Jack
Power Output	Onboard 12V
Power Adapter	AC to DC 60W (Optional)

Others

Watchdog Timer	Reset : 1 to 255 sec./min. per step
GPS	Onboard GPS Module (Optional)

Mechanical

Dimensions	257 x 141 x 48mm (10.1" x 5.6" x 1.9") (W x L xH)
Weight	2.1 kg (4.6 lb)
Mounting	Wallmount by mounting bracket

Environment

Operating Temp.	-25°C to 70°C (-13°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	10% to 95% Humidity, non-condensing
Vibration	<ul style="list-style-type: none"> • IEC 60068-2-64 • SSD : 5Grms, 5Hz to 500Hz, 3 Axis
Shock	<ul style="list-style-type: none"> • IEC 60068-2-27 • SSD : 50G @ Wallmount, Half-sine, 11ms
EMC	CE, FCC, EN 50155, EN 50121-3-2

Order Information

ABP-2845A	• ABP-2000 Slim Embedded System, 4 GbE LAN, 6 COM w/ 2 Isolated, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2845	• ABP-2000 Slim Embedded System, 2 GbE LAN, 6 COM w/ 2 Isolated, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2045A	• ABP-2000 Slim Embedded System, 4 GbE LAN, 6 COM, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2045	• ABP-2000 Slim Embedded System, 2 GbE LAN, 6 COM, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2015	• ABP-2000 Slim Embedded System, 2 GbE LAN, 6 COM, 5 USB, 8 GPIO, Onboard Intel® Atom™ E3815

Option

M340L-W28M1	• Vecow DDR3L 4GB 1333/1066 MHz RAM, Wide Temperature -40°C to +85°C
DDR3L8G	• Certified DDR3L-1600 8G RAM
DDR3L4G	• Certified DDR3L-1600 4G RAM
PWA-60W	• 60W, 12V/5A 100V AC to 240V AC Power Adaptor for DC-Jack