

ABP-2845A

Slim Embedded System with Quad Core Intel® E3845, 4 GigE LAN, 6 COM with 2 Isolated, 5 USB, 8 GPIO, Fanless, Rugged, Extended Temperature

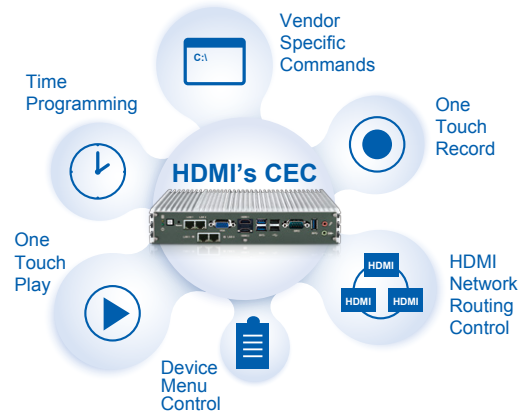
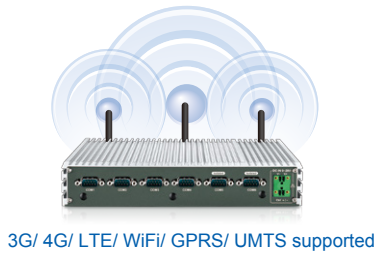
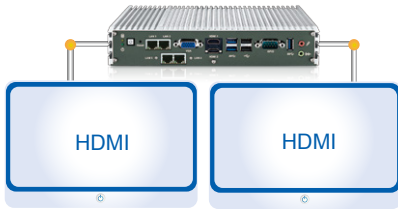


- Quad Core Intel® Atom™ E3845 1.91GHz Processor (Valleyview)
- Rugged, -25°C to 70°C Operating Temperature
- Fanless, Slim and Compact Design
- Dual Display : VGA/ dual HDMI/ LVDS
- 6 External COM with 2 Isolated RS-232/ 422/ 485
- 4 GigE LAN, 3 USB 3.0, 2 USB 2.0, 8 GPIO
- Supports 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- Optional Onboard GPS
- EN 50155 Compliant

ABP-2845A is equipped with Quad Core Intel® Atom™ E3845 1.91GHz Processor and DDR3L single channel 8GB memory, 2 HDMI display, 6 External COM with 2 Isolated RS-232/ 422/ 485, 4 Independent GigE 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, automation networking communication, IOT (Internet of Things), In-Vehicle Infotainment (IVI) systems, and M2M (Machine to Machine) applications.

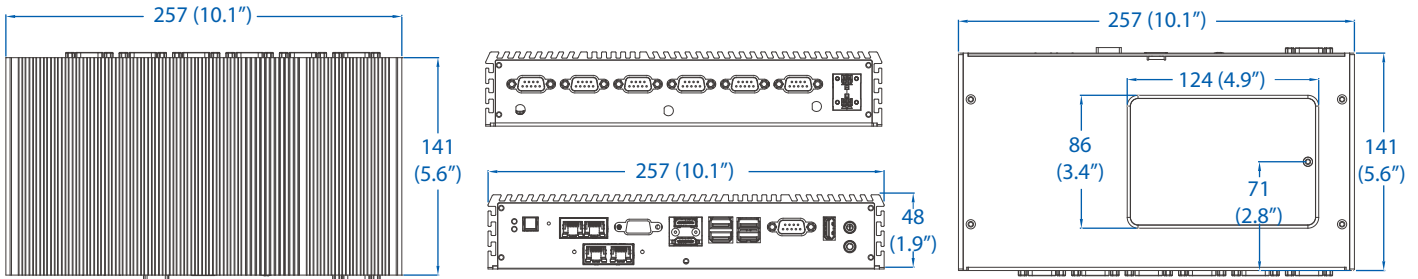


Compact Design, Quality Graphics



Dimensions & Drawing

Unit: mm (inch)



Specifications

System		Power	
Processor	Quad Core Intel® Atom™ E3845 1.91GHz Processor	Power Input	9V to 28V, DC-in
Chipset	Intel® SoC (Bay Trail)	Power Interface	2-pin Terminal Block : V+, V-
Memory	1 DDR3L 1333MHz SO-DIMM, up to 8GB	Remote Switch	2-pin Terminal Block : On, Off
Video	<ul style="list-style-type: none"> 1 DB 15 VGA 2 HDMI 1.4 (Optional CEC Control) Optional BOM: Dual Channel LVDS 	Power Output	Onboard 12V
Audio	1 Mic-in, 1 Line-out	Power Adaptor	AC to DC 60W (Optional)
Software Support	Windows 10, Windows 8.1, Windows 7, Linux	Others	
I/O Interface		Watchdog Timer	Reset : 1 to 255 sec./min. per step
Serial	<ul style="list-style-type: none"> 2 COM RS-232/ 422/ 485 2 COM RS-232 2 Isolated COM RS-232/ 422/ 485 	GPS	Onboard GPS Module (Optional)
LAN 1	GigE LAN by Intel® 82574L	Mechanical	
LAN 2	GigE LAN by Intel® 82574L	Dimensions	257 x 141 x 48mm (10.1" x 5.6" x 1.9") (W x L x H)
LAN 3	GigE LAN by Intel® I210	Weight	2.1 kg (4.6 lb)
LAN 4	GigE LAN by Intel® I210	Mounting	Wallmount by mounting bracket
USB	3 USB 3.0, 2 USB 2.0	Environment	
GPIO	8 GPIO	Operating Temp.	-25°C to 70°C (-13°F to 158°F)
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 Temp.	-40°C to 85°C (-40°F to 185°F)
Storage		Humidity	10% to 95% Humidity, non-condensing
SATA	1 SATA II (3Gbps)	Vibration	<ul style="list-style-type: none"> IEC 60068-2-64 SSD : 5Grms, 5Hz to 500Hz, 3 Axis
mSATA	1 SATA II (Mini PCIe Type, 3Gbps)	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 GigE LAN, 6 COM w/ 2 Isolated, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2845	• ABP-2000 Slim Embedded System, 2 GigE LAN, 6 COM w/ 2 Isolated, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2045A	• ABP-2000 Slim Embedded System, 4 GigE LAN, 6 COM, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2045	• ABP-2000 Slim Embedded System, 2 GigE LAN, 6 COM, 5 USB, 8 GPIO, Onboard Quad Core Intel® Atom™ E3845
ABP-2015	• ABP-2000 Slim Embedded System, 2 GigE 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-60WP2	• 60W, 24V/2.5A 100V AC to 240V AC Power Adaptor for 2-pin 3.5mm Terminal Block