



VMS-BYT

Intel® Atom™ SoC Processor E3845 Fanless Vehicle Telematics System



- > Onboard Intel® Atom™ SoC E3845 Processors
- > One 204-pin SODIMM Socket Up to 8GB DDR3L 1333MHz SDRAM
- > Rich I/O, 1 VGA, 1 LVDS, 1 DC-Out, 1 8-bit GPIO, 1 CFast, 1 2.5" Swappable Drive by, 2 Line-out, 2 Mic-in, 2 LAN, 2 COM, 3 USB, 5 Antenna Mounting
- > Power Management and Low Voltage Protection Design
- > Rugged Fanless Design Compliant with MIL Standard
- > Wake on RTC/SMS Via WWAN Module
- > Optional CAN modules support SAE J1939 or J1708
- > Wide Range DC Power Input from 9 ~ 36V
- > Fanless Operating from -40 ~ 75°C

+ Spec

System	
Processor	Intel® Atom™ E3845 4-Core 1.91GHz processor
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
Board	EBM-BYTV
Expansion	
Expansion	1 x Avalue 80-Pin IET Interface 1 x Bluetooth Interface 1 x CAN module Interface 2 x Mini PCIe
Storage	
Storage	1 x 2.5" Drive Bay 1 x CFast™ or mSATA
I/O	
USB	2 x USB 2.0 1 x USB 3.0
COM Port	2 x RS-232/422/485 (BIOS)
DIO	1 x 8-Bit GPIO (Digital Input) Input Voltage (Internal Type): 5VDC TTL (default) Input Voltage (Source Type): 0~30 VDC (Digital Output) Digital Output (Sink Type): 5VDC TTL (default), max current: 20mA Digital Output (Source Type): 0~30VDC, max current: 250mA
Other	1 x DC-Out (12V/4A) 5 x Knockouts for Antenna Mounting
Display	
Chipset	Intel® Valleyview SoC integrated Graphics Supports dual display
Resolution	VGA:Max. resolution 2560x1080@ 60Hz LVDS:Max. resolution 1600x1200@ 60Hz
Audio	
Chipset	Realtek ALC892 supports 5.1-CH
Audio Interface	2 x Mic-In and 2 x Line-Out
Ethernet	
Chipset	2 x Intel® I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Operating Temp	(w/SSD, mSATA, CFast), ambient w/ air flow -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Construction	Aluminum + Metal
Mounting Kit	Wall Mount kit (Standard)
Dimension (L x W x H)	9.45" x 7.3" x 2.36" (240mm x 186mm x 60mm)
Vibration Test	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure Storage with SSD/CFast/mSATA : MIL-STD-810G, Method 514.6, Category 24, minimum integrity test
Shock Test	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G Non-Operating with SSD/CFast/mSATA: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75G
Certifications	



Certification Information	CE FCC Class A e13 Mark
Software Support	
OS Information	Win 7 Win 8 Linux
Power Requirement	
Power Connector	Phoenix Connector
Power Requirement	+9V ~ +36V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant
Power Mode	AT/ATX (Industrial PC Power Mode)

+ Ordering

VMS-BYT-3845-A1-1R
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