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℃

Spec

System	
Processor	Intel® Atom™ E3845 4-Core 1.91GHz processor
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMMup 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)
Other	1 x DC-Out (12V/4A) 5 x Knockouts for Antenna Mounting
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

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℃ ~ 75℃ (-40°F ~ 167°F)
Storage Temp	-40℃ ~ 85℃ (-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 ACPI 5.0 Compliant
Power Mode	AT/ATX (Industrial PC Power Mode)

⊕ Ordering

VMS-BYT-3845-A1-1R
Intel® Atom™ SoC Processor E3845 Fanless Vehicle Telematics System

VMS-BYT-3845-A1-2R
Intel® Atom™ SoC Processor E3845 Fanless Vehicle Telematics System with Isolation IET module