



EMS-BYT

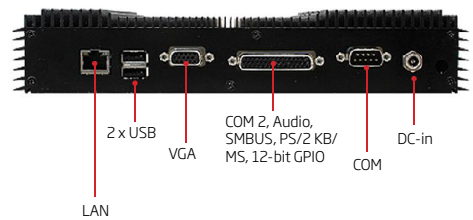
Fanless Intel® Atom™ SoC Rugged Embedded System

Features

- Onboard Intel® Atom™ SoC Processors
- One 204-pin SODIMM Socket Up to 8GB DDR3L 1066/1333MHz SDRAM
- Rich I/O, 1 VGA, 1 LAN, 1 SIM Card Slot, 1 Swappable HDD, 1 Audio, 1 12-bit GPIO, 1 SMBUS, 2 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 3 USB
- Expansion Slot Supporting 2 Mini PCIe Slot
- Front Access Swappable 2.5" Drive Bay, SIM Card
- IET Expansion Supporting Multi-COM, Multi-LAN Bypass, Multi-LAN PoE, Multi-COM Isolation Modules
- Rugged Design for Vibration & Shock Protection, Cable Less Design
- Fanless Operation from -15 ~ 60°C & -40 ~ 85°C
- Wide Range DC Power Input from 12 ~ 26V
- Service Window, Easy to Install mSATA, Memory and Mini PCIe Module



Power Switch



LAN

Barebone Systems

Specifications

System

CPU	Intel® Atom™ E3845 1.9 GHz Quad Core SoC Processor
System Chipset	Valleyview-D/I SoC Integrated
BIOS	AMI uEFI BIOS, 64Mbit SPI Flash ROM
System Memory	One 204-pin SODIMM Socket Up to 8GB DDR3L 1066/1333MHz SDRAM
Video	Intel® Integrated Graphic Engine
Audio	Realtek ALC892 Supports 5.1-CH Audio
Ethernet	1 x Intel® I211AT Gigabit Controller
Expansion	IET Interface (1 x DP, 4 x PCIe1, 3 x USB, 1 x LPC, 1 x Line-Out (R/L), 1 x SMBus); 2 x Mini PCIe Socket (mSATA and SIM Card Supported)
System Fan	Fanless
Storage	1 x 2.5" Drive Bay, 1 x mSATA

External I/O

KB/MS	2 x PS/2 for KB & MS
Audio	Line-in, Line-out and Mic-in
LAN	1 x RJ-45
Display Interface	1 x VGA
USB	2 x COM (Can be set as RS-232/422/485 by BIOS)
COM	1 x RS-232
Power Input	1 x DC-in
SIM	1 x SIM Card Slot
SMBUS	1 x SMBUS
Antenna	2 Knockouts for Antenna Mounting (Options to Add WiFi & 3G)
GPIO	6-bit GPI and 6-bit PO

Mechanical & Environment

Power Requirement	DC +12V ~ +26V, Wide Voltage Single Power Input; TVS Component for Surge Protection; Reverse Current/Voltage Protection
ACPI	Single Power ATX Support S0, S3, S4, S5; ACPI 5.0 Compliant
Power Type	AT/ATX (ATX is The Default Setting)
Operating Temp.	-40°C ~ 85°C (w/SSD, mSATA) Ambient w/Air Flow
Storage Temp.	-40 ~ 75°C (-40 ~ 167°F)
Relative Humidity	0% ~ 90% Relative Humidity, Non-condensing
Vibration Protection	With mSATA/SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/axis
Shock Protection	With mSATA/SSD: 50G, IEC 60068-2-27, Half Sine, 11ms
Certification	CE, FCC Class B
Dimension (WxDxH)	9.45" x 6.69" x 1.77"
Weight	4.4lbs (2Kgs)

Ordering Info

EMS-BYT-3845

Fanless Intel® Atom™ SoC Processor Rugged Embedded System w/VGA, LAN, SIM Slot, Swappable HDD, Audio, 12-bit GPIO, SMBUS, 2 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 3 USB