

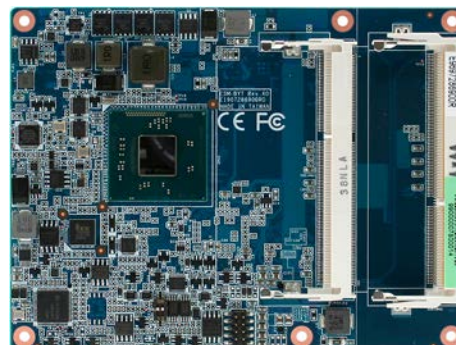
ESM-BYT

COM Express Module

Intel® Atom™ SoC Processors COM Express
Type 6 Module

Features

- Intel® Atom™/Celeron J1900 SoC Processors
- Two 204-pin SODIMM Up to 8 GB DDR3L1066/1333 SDRAM
- Support Dual-channel 18/24-bit LVDS, DisplayPort,DVI, VGA, eDP (Option)
- Intel® I211AT Gigabit Ethernet
- 2 SATA II, 7 USB 2.0, 1 USB 3.0, 8-bit GPIO
- +9 ~ +19V Wide Range Power Input
- Type 6 Pin-out
- Extended Temperature: -40 ~ +85°C



Specifications

System

CPU	ESM-BYT-J1900: Intel® Celeron® J1900 2.0 GHz Quad Core ESM-BYT-E3845: Intel® Atom™ E3845 1.9 GHz Quad Core ESM-BYT-E3845-ET: Intel® Atom™ E3845 1.9 GHz Quad Core with -40 to 85 Extended Temp
BIOS	AMI uEFI 64M or 128Mbit Flash ROM
System Chipset	Valleyview SoC Integrated
System Memory	Two 204-pin SODIMM Socket, Supports Up to 8GB DDR3L 1066/1333 SDRAM
Expansion	3 x PCIe1

OS Support

OS Info	Win 8, Win 7, Linux, Android
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I/O

MIO	2 x Serial ATA ports SMBus, LPC, 1 x I2C for VGA, 1 x I2C for LVDS, UART
USB	7 x USB 2.0, 1 x USB 3.0 Ports
DIO	4-bit GPI, 4-bit GPO

Display

Chipset	Intel® Atom™ SoC Integrated Graphics, Chromtel CH7511B (eDP to LVDS)
Resolution	DisplayPort, eDP (2560 x 1600 @ 60 24bpp)
Multiple Display	2 Display Pipes Supported (VGA, LVDS, DVI)
LCD Interface	Dual-channel 18/24-bit LVDS

Audio

HD Codec	Valleyview SoC Integrated
Audio Interface	Intel® High Definition Audio

Ethernet

LAN Chip	Intel® I211AT Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environment

Power Requirement	+9 ~ +19V
ACPI	Single Power ATX Support S0, S3, S4 ACPI 3.0 Compliant
Power Type	AT/ATX
Operating Temp.	Standard: 0 ~ 60°C Extended: -40 ~ 85°C
Storage Temp.	-55°C ~ 85°C
Operating Humidity	0%~90% Relative Humidity, Non-condensing
Form Factor	COM Express Modules
Dimensions	5" x 3.7" (125mm x 95mm)
Weight	0.44lbs (0.2kg)

Ordering Info

ESM-BYT-J1900	Intel Celeron J1900 2.0 GHz Quad Core COM Express Type6 Module
ESM-BYT-E3845	Intel Atom E3845 1.9 GHz Quad Core COM Express Type6 Module
ESM-BYT-E3845-ET	Intel Atom E3845 1.9 GHz Quad Core COM Express Type6 Module with -40 to 85 Extended Temp
EEV-EX14	COM Express Type 6 Carrier Board for Evaluation

* All product specifications and images are subject to change without notice.
Last update: 3/17/2015