

 APOLLO DISPLAY  
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# Datasheet

## iBASE

### ET839

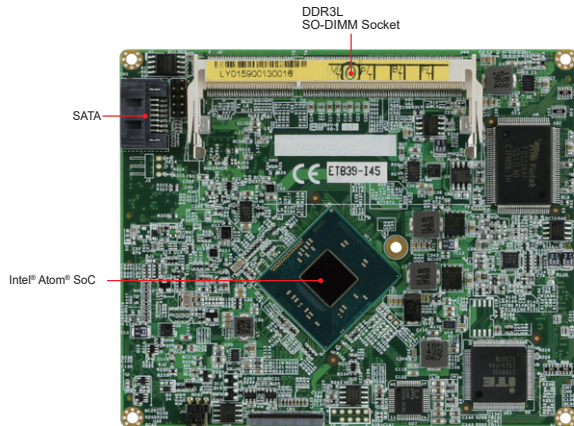
ETX Computer-on-Module with Intel® Atom™ Processor E3845 and  
an extended operating temperature range



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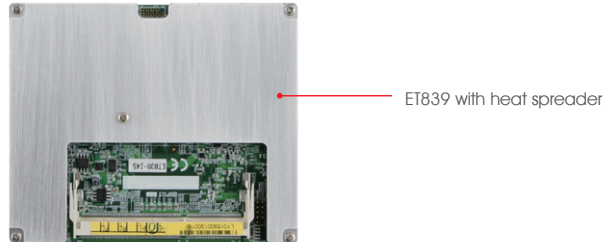
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## Features

- Onboard Intel® Atom® Processor E3845, 1.91GHz
- 1x DDR3L SO-DIMM, Max. 8GB
- Supports CRT, LVDS and 1x DDI
- 1x 10/100Mbps LAN
- Watchdog timer, LPC to ISA
- 1x SATA II, 2x IDE, 4x USB 2.0, 2x COM
- Wide-range operating temperature



## Specifications

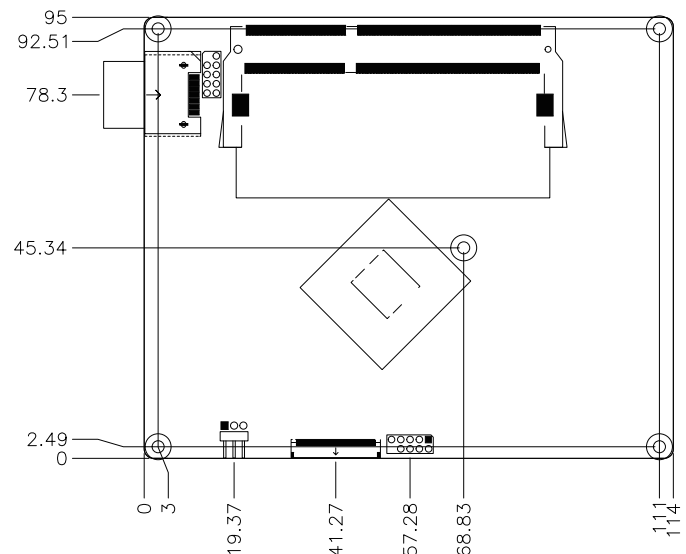
CPU	Intel® Atom® Processor E3845 SoC, 1.91GHz
PCH	Integrated in Intel® Atom® SoC
Memory Type	1x DDR3L SO-DIMM, Max. 8GB
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	N/A
Expansion Slots	4x ETX connectors for PCI bus, USB, audio, CRT, LVDS, LAN, COM ports, LPT, IDE, PS/2 keyboard/mouse and ISA bus
Graphics Controller	Intel® Atom® SoC integrated Gen. 7 4Eus graphics
Video Output	Supports CRT, 24-bit dual-channel LVDS & 1x DDI port
Ethernet	Realtek 8106E 10/100Mbps LAN
I/O Chip	Nuvoton NCT6102D 1x keyboard, 1x mouse, 1x printer
Serial Port	2x RS232
USB 2.0	4x USB 2.0 via Carrier Board
USB 3.X	N/A
Serial ATA	1x SATA 2.0 port on board (3.0Gb/sec)
Audio	Intel® Atom® SoC built-in HD Audio w/ Realtek ALC888S codec
TPM	N/A
Others	Fintek F85226 (LPC to ISA)
Dimensions (L X W)	95mm x 114mm (3.74" x 4.49")
Power Consumption	Intel® Atom® E3845 1.91GHz w/ 2x 4GB DDR3L-1600 +5V : 1.92A
Operating Temperature	-20°C~70°C (-68°F~158°F)
Storage Temperature	-20°C~80°C (-68°F~176°F)
Relative Humidity	10%~90% (non-condensing)

## Ordering Information

ET839D1S-I45	ETX (3.0) CPU Module w/ Intel® Atom® processor E3845 SoC, CRT, LVDS and 10/100 LAN, heat spreader included
IP412	ETX(3.0) Carrier Board
HSET838-BGA-1	Heat spreader for ET839

\*(S) means with Realtek ALC888S codec

## Dimensions and Drawing



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