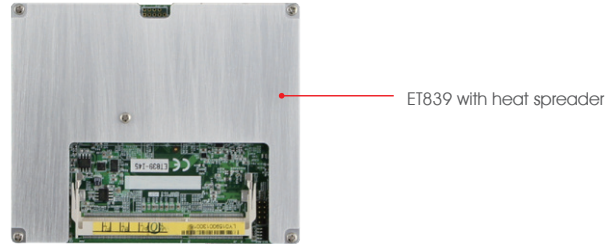


## Features

- 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<br>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<br>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<br>w/ 2x 4GB DDR3L-1600<br>+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

