



Features

- Onboard Intel® Atom® Processors x7000RE Series
- 1x DDR5-4800 SO-DIMM, Max. 16GB
- Supports Type-C & DP++ and eDP or LVDS
- 2x I226IT PCI-E 2.5G LAN, 4x COM ports
- 4x USB 3.2 (1x Type-C + 3x Type-A), 2x USB 2.0, 1x SATA III
- 2x M.2 sockets (E-Key & B-Key)
- 9V~36V DC wide-range power input
- Supports wide-range operating temperature from -20°C to 85°C
- Supports fTPM, watchdog timer, Digital I/O

Specifications

CPU	Intel® Atom® 8-Core x7835RE or Intel® Atom® dual-Core x7211RE
PCH	N/A
Memory	1x DDR5 SO-DIMM, Max. 16GB
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x M.2 B3052
Mini Type Slots	1x M.2 (E2230), 1x M.2 (B3052)
Graphics Controller	Intel® SoC integrated Gen12 Graphics
Video Output	3x DisplayPort [DP connector & Type-C & eDP or LVDS]
Ethernet	2x Intel® I226IT PCI-E 2.5G LAN
I/O Chipset	Fintek F81964D-I
Serial Port	1x RS232/422/485 (Jumperless selection) & 3x RS232
USB 2.0	2x USB 2.0 (Pin-header)
USB 3.X	1x Type-C & 3x Type-A
Serial ATA	1x SATA III
Audio	Built-in HD with Realtek ALC888S
TPM	fTPM
Others	Digital I/O (4-in/4-out), EuP/ErP, +9V~+36V DC-in
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	TBD
Operating Temperature	-20°C ~ +85°C (-4°F ~ +185°F)
Storage Temperature	-40°C ~ -80°C (-40°F ~ +185°F)
Relative Humidity	10% ~ 90% (non-condensing)

Ordering Information

IB839-7835RE	Intel® Atom® x7835RE 3.5-inch SBC, w/ 2x 2.5GbE LAN, 1x Type-C, 1x DP, 1x eDP or LVDS, EuP/ErP, +9V~2+36V DC-in
HSIB839-A	Heatsink for IB839
HSIB839-1	Heat spreader for IB839