



Features

- Onboard Intel® Atom® x6000 series processors
- 2x DDR4-3200 SO-DIMM sockets, Max. 32GB, supports IBEC
- Intel® Atom® processor integrated graphics HDMI (2.0b), VGA and LVDS or eDP
- Dual Intel® 2.5G LAN (I226IT)
- 3x USB 3.1, 4x USB 2.0, 4x COM, 1x SATA III
- 1x PCI-E (x1) [Gen. 3.0], 1x mPCIe, 2x M.2 sockets (M-key & E-key)
- Watchdog timer, Digital I/O, fTPM
- Wide-range operating temperature from -20°C to +70°C



Specifications

CPU	Intel® Atom® QC x6425E (2.0GHz / 3.0 GHz) Intel® Atom® QC x6413E (1.5GHz / 3.0 GHz) Intel® Atom® DC x6211E (1.3GHz / 3.0 GHz)
PCH	Integrated in Intel® Atom® SoC
Memory Types	2x DDR4 SO-DIMM sockets, Supports DDR4-3200 memory module, Max. 32GB
BIOS	AMI
Watchdog Timer	256 levels
Storage Device Interface	1x SATA III (shared with M.2) 1x mSATA
H/W Monitor	Yes
Mini Type Slots	1x M.2 (M-key, type:2280, SATA III) 1x M.2 (E-Key, type:2230, USB 2.0 + PCI-E) 1x MiniPCI-E (Full-size, USB 2.0 + PCI-E)
Expansion Slots	1x PCI-E (x1) [Gen.3.0]
Graphics Controller	Intel® Atom® SoC integrated
Video Output	1x HDMI (2.0b) + 1x VGA + LVDS or eDP
Ethernet	LAN 1: Intel® I226IT LAN 2: Intel® I226IT
I/O Chip	Fintek F81964D-I
Serial Port	4 COM ports: 2x RS232/422/485 + 2x RS232
USB 2.0	4x USB 2.0 via pin-headers
USB 3.X	3x USB3.1 (5bps) @ edge connector
Serial ATA	1x SATA III
Audio	Built-in HD Audio controller + Realtek ALC888S with class-D amplifier
TPM	Supports fTPM
Others	Digital I/O (4-in/4-out), Watchdog timer, +12V ~+24V DC-in, with fanless heatsink
Dimensions (L x W)	170mm x 170mm (6.7" x 6.7")
Power Consumption	TBD
Operating Temperature	-40°C ~ +70°C (-40°F ~ 158°F)
Storage Temperature	-40°C ~ +80°C (-40°F ~ 176°F)
Relative Humidity	90% (non-condensing @60°C)

Ordering Information

MI836F-6425E	Intel Atom® x6425E (2.0GHz~3.0GHz) + fanless heatsink onboard MiniITX, w/ Intel I226IT LAN x2, HDMI, VGA, LVDS, 12~24V DC-in, wide temperature support
MI836FE-6425E	Intel Atom® x6425E (2.0GHz~3.0GHz) + fanless heatsink onboard MiniITX, w/ Intel I226IT LAN x2, HDMI, VGA, eDP, 12~24V DC-in, wide temperature support
MI836F-6413E	Intel Atom® x6413E (1.5GHz~3.0GHz) + fanless heatsink onboard MiniITX, w/ Intel I226IT LAN x2, HDMI, VGA, LVDS, 12~24V DC-in, wide temperature support
MI836FE-6211E	Intel Atom® x6211E (1.3GHz~3.0GHz) + fanless heatsink onboard MiniITX, w/ Intel I226IT LAN x2, HDMI, VGA, eDP, 12~24V DC-in, wide temperature support

Dimensions and Drawing

