

MOBIX-II Series - Superior Fanless Embedded System



Data sheet

Technical Specifications

System	MOBIX-II Series - MB-5XX-X-XXXX-AXX-CT
Processor	Intel® Core®i3/i5/i7 or Pentium® Processor
Core Logic	Intel® Q170 Express Chipset
Memory	2x DDR4 1866/2133MHz SODIMM Max. up to 32GB
OS Storage (internal 2.5")	2x Internal 2.5" SATA HDD Bay 2x Removable 2.5" SATA HDD Bay
Hardware RAID Levels	RAID 0, 1, 5, 10
Network (Model MB-502-X-XXX-A2-CT)	1 x Intel® I210-AT 1 x Intel® I219-LM
Network (Model MB-506-X-XXX-A2-CT) and (Model MB-506-X-XXX-A12-CT)	1 x Intel® I210-AT 1 x Intel® I219-LM 4 x Intel® I350-AM4
Multiple Display	1 x DVI-I 2 x DisplayPort VGA through optional split cable
Audio Codec	Realtek ALC888S
SIM Socket	4 x SIM Socket (MB-502) 3 x SIM Socket (MB-506)
Multi-Constellation GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS (Optional)
LTE Category 4 Module Data Transfer	LTE FDD: Max 150Mbps (DL) / Max 50Mbps (UL) LTE TDD : Max 130Mbps (DL) / Max 30Mbps (UL) DC-HSDPA : Max 42Mbps (DL) HSUPA : Max 5.76Mbps (UL) WCDMA : Max 384Kbps (DL) / Max 384Kbps (UL) EDGE : Max 296Kbps (DL) / Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL) / Max 85.6Kbps (UL)
LTE Module Protocols	TCP/UDP/PPP/FTP/FTPS/HTTP/HTTPS/NTP PING/QMI/NITZ/MMS/SMTP/SSL/MQTT/FILE
I/O Ports	2 x RS-232/422/485 2 x RS-232/422/485 (internal) 6 x USB 3.0, 2x USB 2.0 2 x GbE RJ45 (all models) 4 x POE - (25.5W) – A2 and A12 models (except for MB-502) 1 x Mic-in, 1x Speaker-out 8 x IN/OUT Digital IO (isolated) 2 x Universal I/O Bracket (For mini PCIe application) 6 x Wi-Fi Antenna Holes 1 x Power Switch, 1x AT/ATX Switch 1 x Remote Power On/Off
Operating System	Windows 10
Power Ignition Management	Yes (except for MB-502)
Power Adaptor	Optional AC/DC 24V/5A, 120W
Voltage	9 to 48 VDC
Dimensions – mm (D x W x H)	261 x 240 x 79
Environment	Operation temperature: -25°C ~ 70°C Non-operation temperature: -30°C ~ 85°C
Relative Humidity (%)	Non-operation humidity: 10%~ 95%(Non-condensing)
Vibration	With SSD: 5 Grms, 5-500Hz, 0.5 hr/axis With HDD: 1 Grms, 5-500Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Certification	CE, FCC Class A
Warranty Period	3 Years
BTU/hr (with optional Power Adaptor)	410.31

*Specifications are subject to change, without prior notice.