



Specifications

System Mainboard	MBT-8001RW
CPU Type	10th Gen Intel® Core™ Desktop processors
Processor Speed	4.5GHz
Memory	2x DDR4-2666 SO-DIMM, 2x 8GB (default) Maximum size supported: 128GB
Front Panel External I/O	2x Accessible 2.5" device bay (SSD/HDD) 2x M12 X-code 8-pin for GbE LAN, isolated 1x M12 4-pin A-code for USB 2.0, isolated 1x M12 4-pin A-code for USB 1.1, isolated 1x 3.5mm pink audio connector for MIC-Input 1x 3.5mm blue audio connector for Line in 4x SMA Antenna holes with cap 2x PCI-Ex4 card slots for IDT8102/IDT 7204 (with cover when empty) - IDT8102: 2x 10G LAN card - IDT7204: 4x 1G PoE card 2x External accessible SIM socket 1x Micro SD card socket 1x Recessed Access Tach-switch for System Reset 1x USB Type-C with graphics (No PD function) 1x USB3.2 Gen.2 type-A Indicators: Four light-pipe for four status LED - 1x 0402 SMT green LED for power status - 1x 0402 SMT white LED for storage activity status - 1x 0402 SMT blue LED for WLAN activity status - 1x 0402 SMT amber LED for WWAN activity - 2x 0402 SMT green LED, programmable
Rear Panel External I/O	1x Main power input, Staubli connector 2x Removable with screw lock FUSE holder 1x Backup power source, 24VDC only 1x DVI-D output 1x HDMI output 1x USB3.2 Gen.1 type-A 1x 3.5mm green audio connector for Line-out 1x Male DSub9 for RS-485, isolated 1x Male DSub9 connector for RS-232/485, isolated 1x Female DSub9 for 8x DO and ground by cable, isolated 1x Female DSub9 for 8x DI and ground by cable, isolated 1x M4 with washer screw hole for grounding connection 4x SMA Antenna holes with cap
Storage	2x 2.5" Removable device bay for SSD devices 2x M.2 M-key SSD devices RAID 0/1/5 supported, Max. 4x SATA devices
Expansion slots	1x mPCI-E full/half-size socket 1x 3042/52 M.2 B-Key socket for WWAN (supports SIM1) - This M.2 socket comes with USB2.0/3.0/PCI-Ex1 interface only 1x 3042/52 M.2 B-Key socket for WWAN (supports SIM2) - This M.2 socket comes with USB2.0/PCI-Ex1 interface 1x 2242/80 M.2 M-key socket for SSD/VPU/WLAN card 1x 2242/80 M.2 M-key socket for SSD/VPU/WLAN card (NVMe support) 1x 2230 M.2 E-Key socket for WLAN (CNVi support)

Features

- EN50155 (2021) / EN45545-2 certified
- AI solution for Transportation application
- Supports 10th Gen Intel® Core™ Desktop processors
- Up to 10x GbE ports (8x with PoE capability)
- Optional 10G LAN
- Supports Intel® Movidius Vision Acceleration M.2 modules
- Supports Wi-Fi 6 CNVi, dual WWAN channels, RAID 0/1/5
- 1x USB Type-C with graphics output for quick setting and diagnostics

Power Supply	Main: 72V /110VDC Second: 24V DC only, once the main power loses, switch to second power automatically
Construction	Metal
Chassis Color	Black
Mounting	19" Rack mount
Dimensions	482 (W) x 308 (D) x 132 (H) mm 18.97" (W) x 12.13" (D) x 5.2" (H)
Operating Temperature	-10°C~60°C (14°F~140°F)
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	10 ~ 95% @ 45°C, (non-condensing)
Vibration	EN61373
Shock	EN61373
Certified	EN50155: 2021, EN45545-2 CE/FCC class-A

Ordering Information

MPT-8000RH	MPT-8000R with MBT-8001R, 10th Gen Intel® Core Xeon W-1250TE with W480E PCH, w/ 2x 8GB DDR4-2666, 2x SSD bay, No PSU, No storage (RoHS2) 72/110V DC-input
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Dimensions

