

MPT-1000R

Railway Computer System

EN50155/EN45545 Certified Intel® Atom® x7-E3950 Processor Railway Computer System with M12 Connection and Dual WWAN



MPT-1000R VIDEO



Specifications

System Mainboard	MBT-1001R
CPU Type	Intel® Atom® x7-E3950 Processor
Processor Speed	1.6GHz , up to 2.0GHz
Memory	1x DDR3L SO-DIMM socket (horizontal type) with ECC support, default 4GB ECC
Front panel I/O	1x power reset button 1x DVI-D 2x M12 X-code GbE LAN, isolated 1x USB 2.0 type-A, isolated 1x M12 A-code USB 2.0 isolated 2x Audio jack for Line-in/out 5x LED indications, one is programmable 1x SIM card slot for dual micro SIM card 1x Expansion slots reset button
Rear Panel External I/O	1x 10-pin terminal block connector for - 2x insulated DO • Output type: Darlington transistor • Sink current: 500 mA for one channel @100% duty - Source current: 500 mA for one channel @100% duty cycle - Supply voltage: 5V~35V DC - Isolation voltage: 2500 VRMS - 6x insulated DI • Maximum input range: 24V, non-polarity • Digital logic levels: 0V~24V, non-polarity • Input high voltage: 5V~24V • Input low voltage: 0V~1.5V • Input resistance: 1.2k @ 0.5W Isolation voltage: 2500 VRMS - 1x DSUB9 for RS232/485, isolated - 1x DSUB9 for RS485, isolated 1x M12 4-pin D-code for 2 master CANbus, isolated 2x USB 2.0 type-A, isolated 1x M12 3-pin A-code for power input 1x Blade fuse
Storage	2x 2.5" device bay for SSD/HDD 1x mSATA via miniPCI-E slot (shared with one 2.5" device)
Expansion slots	1x miniPCI-E full/Half-size, supports mSATA 1x miniPCI-E full/Half-size, supports second SIM card shared with M.2 slot 1x M.2 B-key 30x42 with USB 2.0 and USB 3.0 signal only, supports 2x SIM cards
Power Supply	9V~32VDC, 1.5KV galvanic isolation protection
Construction	Matel
Chassis Color	Black
Mounting	Side mounting, rack mounting with optional bracket
Dimensions	340 (W) x 183.4 (D) x 67.6 (H) mm 13.3" (W) x 7.22" (D) x 2.66" (H)

Features

- EN50155 (2017) certified
- Fanless and ruggedized design
- Robust M12 connection for dual GbE, USB
- Onboard isolated CANbus
- SIM socket supports Dual WWAN
- Add on card slots reset function
- Quick accessible RTC battery

Operating Temperature	-40°C ~70°C, with SSD, not including add-on cards
Storage Temperature	-40°C ~ 85°C (-40°F~185°F)
Relative Humidity	10 ~ 95% @ 45°C, (non-condensing)
Vibration	Function: 1m/S2, 5Hz~150Hz (EN 61373) Lifetime: 7.9m/S2, 5Hz~150Hz (EN 61373)
Shock	50 m/S2, 30 msec (EN61373)
Certified	EN50155: 2017 CE (EN62368/ EN55032/ EN55025)/ FCC Class-A EN45545-2

Ordering Information

MPT-1000RM	MPT-1000R with MBT-1001R, Intel® Atom® x7-E3950 Processor, 4G DDR3L ECC RAM, 2x M12 GbE LAN, 24VDC(-25%~+30%), No OS, adaptor and storage
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Dimensions

