

# 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
System Speed	1.6GHz , up to 2.0GHz
Memory	1x DDR3L SO-DIMM socket (horizontal type) w ECC support, default 4GB ECC
Construction	Matel
Chassis Color	Black
Front panel I/O	1x power reset button 1x DVI-I 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
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)
Operating Temperature	-40°C ~70°C, with SSD, not included add-on cards

### Features

- EN50155 certification
- 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

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)
Certification	EN50155: 2017 CE (EN62368/ EN55032/ EN55025)/ FCC Class A EN45545-2

### Ordering Information

MPT-1000R	MPT-1000R with MBT-1001R, Intel® Atom™ x7-E3950 Processor, w/ 4GB ECC RAM, 64G MLC SSD, 9V~32VDC input
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### Dimensions

