

# MPT-7000R

## Railway System

EN50155/EN45545 Certified 7th/6th Gen Intel® Core™ Processor  
Railway Fanless Box PC with M12 Connection and WWAN Redundancy



### Specifications

System Mainboard	MBT-7001R
CPU Type	7th/6th Generation Intel® Core Processor
System Speed	2.6 GHz
Memory	2x 4GB DDR4-2133 SO-DIMM (Dual Channel)
Construction	Aluminum
Chassis Color	Black
Front Panel External I/O	CFast, 2.5" device bay, 2nd Mic-In & Line-Out 2x SIM sockets, 2x USB 3.0, Reset button Status LEDs, 4x antenna connectors
Rear Panel External I/O	DVI-D, VGA, 3x COMs (2x COMs for HV model, one with RS422/485 options), 2x M12 GbE, 2x M12 USB 2.0, M12 power connection, 1st Mic-In & Line-Out, GPIO, GbE status LEDs, 1x PCI-E (x4) slot
Storage	2x 2.5" device bay for SSD & HDD
Expansion slots	1x Half size Mini PCI-E socket (USB 2.0) 1x Full size Mini PCI-E socket (USB 2.0 + PCI-E) 1x 2230 Socket 1 M.2 socket (USB 2.0 + PCI-E) 1x 3042 Socket 2 WWAN M.2 socket (USB 2.0) 1x 2280 Socket 3 SSD M.2 socket (SATA)
Power Supply	DC 9V~36V / 72V / 110V
Mounting	Custom mounting rail
Dimensions	256.0 (W) x 182.0 (D) x 83.0 (H) mm 10.08" (W) x 7.17" (D) x 3.27" (H)
Operating Temperature	SSD: -30°C ~ 55°C (-22°F~131°F) HDD: -20°C ~ 45°C (-4°F~113°F) SSD: -40°C ~ 70°C (-40F ~ 158F) system only
Storage Temperature	-35°C ~ 85°C (-31°F~185°F)
Relative Humidity	10 ~ 95% RH @ 45°C (non-condensing)
Vibration	Function: 1 m/s <sup>2</sup> , 5Hz ~ 150 Hz (EN 61373) Lifetime: 5.72 m/s <sup>2</sup> , 5Hz ~ 150 Hz (EN 61373)
Shock	50 m/s <sup>2</sup> , 30 msec (EN 61373)
Certification	EN50155:2007, EN50153:2014 EN50121-3-2:2015, CE class A, FCC class A, EN45545

### Features

- EN50155 certified
- Fanless design
- Robust M12 connection for dual GbE, USB and power input
- Dual SIM sockets support WWAN redundancy
- Two Removable 2.5" device bay and CFast socket
- Rich I/O interfaces for wireless, SSD, GPS, WWAN and add-on card expansion
- Ignition power control
- Wide-range voltage GPIO interface
- One PCI-E (x4) expansion

### Ordering Information

MPT-7000RSM	MPT-7000R with MBT-7001R, 6th Gen Intel® Core™ i7-6600U Processor w/ 2x 4GB DDR4-2133, 2x SSD bay, No PSU, No storage (RoHS) 24V DC
MPT-7000RHVSM	MPT-7000R with MBT-7001R, 6th Gen Intel® Core™ i7-6600U Processor w/ 2x 4GB DDR4-2133, 2x SSD bay, No PSU, No storage (RoHS) 72V/110V DC
M12-PWR-Cable-1	120CM M12 Power Cable For MPT Series / Lead Only
M12-USB-Cable-1	300CM M12 to One USB Receptacle Cable For MPT Series
M12-RJ45-Cable-1	300CM M12 to One RJ45 Jack Cable
Fuse-HV	Fuse for HV version

### Dimensions

