

MPT-7000R

Railway Computer System

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



Specifications

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|--------------------------|---|
| System Mainboard | MBT-7001R |
| CPU Type | 7th/6th Generation Intel® Core Processor |
| System Speed | 2.6GHz |
| 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 ² , 5Hz ~ 150 Hz (EN 61373) Lifetime: 5.72 m/s ² , 5Hz ~ 150 Hz (EN 61373) |
| Shock | 50 m/s ² , 30 msec (EN 61373) |
| Certification | EN50155:2007, EN50153:2014 EN50121-3-2:2015, CE class A, FCC class A, EN45545 |

Features

- EN50155 certification
- Fanless and ruggedized design
- Robust M12 connectors 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

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| 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

