

MPT-3000R

Railway Computer System

EN50155/EN45545 Certified Intel® Atom® Processor E3845
 Railway Computer System with M12 Connection and WWAN Redundancy



Features

- EN50155 (2021) certified
- Fanless and ruggedized design
- Robust M12 connection for dual GbE, USB and power input
- Dual SIM sockets support WWAN redundancy
- 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

Ordering Information

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|------------------|---|
| MPT-3000RSM | MPT-3000R with MBT-3001R, Intel® Atom® Processor E3845 w/ 2x 2GB DDR3L-1333, SSD bay, No PSU, No storage (RoHS) |
| MPT-3000RHVSM | MPT-3000R with MBT-3001R, Intel® Atom® Processor E3845 w/ 2x 2GB DDR3L-1333, 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 |

Specifications

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|--------------------------|--|
| System Mainboard | MBT-3001R |
| CPU Type | Intel® Atom® Processor E3845 |
| Processor Speed | 1.91GHz |
| Memory | 2x 2GB DDR3L-1333 SO-DIMM (Dual Channel) |
| Front Panel External I/O | CFAST, 2.5" device bay, 2nd Mic-In & Line-Out 2x SIM sockets, 1x USB 3.0, 1x USB 2.0, Reset button Status LEDs, 4x antenna connectors |
| Rear Panel External I/O | DVI-D, VGA, 3x COMs (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 |
| Storage | 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 M.2 E-Key socket (USB 2.0 + PCI-E) 1x 3042 M.2 B-Key WWAN socket (USB 2.0) 1x 2280 M.2 M-Key SSD socket (SATA) |
| Power Supply | DC 9V~36V / 72V / 110V |
| Construction | Aluminum |
| Chassis Color | Black |
| Mounting | Custom mounting rail |
| Dimensions | 256.0 (W) x 182.0 (D) x 68.0 (H) mm 10.08" (W) x 7.17" (D) x 2.68" (H) |
| Operating Temperature | SSD: -40°C ~ 70°C (-40°F ~ 158°F) HDD: -20°C ~ 50°C (-4°F ~ 122°F) |
| Storage Temperature | -40°C ~ 85°C (-40°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) |
| Certified | EN50155:2021, EN50153:2014 EN50121-3-2:2015, CE Class-A, FCC Class-A, EN45545 |

Dimensions

