



### Specifications

|                          |                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Mainboard         | MBT-7001R                                                                                                                                                                                                                    |
| CPU Type                 | 7th/6th Generation Intel® Core Processor                                                                                                                                                                                     |
| Processor Speed          | 2.6GHz                                                                                                                                                                                                                       |
| Memory                   | 2x 4GB DDR4-2133 SO-DIMM (Dual Channel)                                                                                                                                                                                      |
| Front Panel External I/O | CFast, 2.5" device bay, 2nd Mic-In & Line-Out<br>2x SIM sockets, 2x USB 3.0, Reset button<br>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,<br>M12 power connection, 1st Mic-In & Line-Out, GPIO,<br>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)<br>1x Full-size Mini PCI-E socket (USB 2.0 + PCI-E)<br>1x 2230 M.2 E-Key socket (USB 2.0 + PCI-E)<br>1x 3042 M.2 B-Key WWAN socket (USB 2.0)<br>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 83.0 (H) mm<br>10.08" (W) x 7.17" (D) x 3.27" (H)                                                                                                                                                    |
| Operating Temperature    | SSD: -30°C ~ 55°C (-22°F~131°F)<br>HDD: -20°C ~ 45°C (-4°F~113°F)<br>SSD: -40°C ~ 70°C (-40°F ~ 158°F) 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)<br>Lifetime: 5.72 m/s <sup>2</sup> , 5Hz~150 Hz (EN 61373)                                                                                                              |
| Shock                    | 50 m/s <sup>2</sup> , 30 msec (EN 61373)                                                                                                                                                                                     |
| Certified                | EN50155:2007, EN50153:2014<br>EN50121-3-2:2015, CE Class-A, FCC Class-A, EN45545                                                                                                                                             |

### Features

- EN50155 certified
- 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

|                  |                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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

