# RBOX-1000-M12X

Intel Gen6 Core i7-6600U CPU with Isolated 110VDC Input 6 x GbE with optional PoE
In-Vehicle Computer/ EN50155 Railway Applications

## Features

- **Intel Core i7-6600U / i5-6300U / i3-6100U**
- **Wireless support LTE w/ SIM Card, GPS, BT(option)**
- **6 x GbE optional PoE**
- **Isolated wide Input Range 77-137V DC**
- **Dual Hot Swappable SATA Storage, RAID 0,1,5**
- **EN50155 Tx temperature and class S2 interruption**

## Introduction

The RBOX-1000-M12X is powered by Intel Gen6 Core i7-6600U CPU with Isolated 110VDC Input 6 x GbE(optional PoE) In-Vehicle Computer / EN50155 Railway Applications. RBOX-1000-M12X is highly flexible, supporting a wide range of peripherals and connections. It offers Wireless support LTE with SIM Card, GPS, BT(option), isolated wide Input Range 77-137V DC and EN50155 Tx temperature and class S2 interruption.

RBOX-1000-M12X can be operated in extreme weather conditions (operating temperature: -40ºC ~ 70 ºC) suitable for railway station management and License Plate Identification (LPI). The easy-to-use, intuitive interface makes RBOX-1000-M12X highly suitable for use in public transportation and other applications which require high capacity and simplicity.

## Specifications

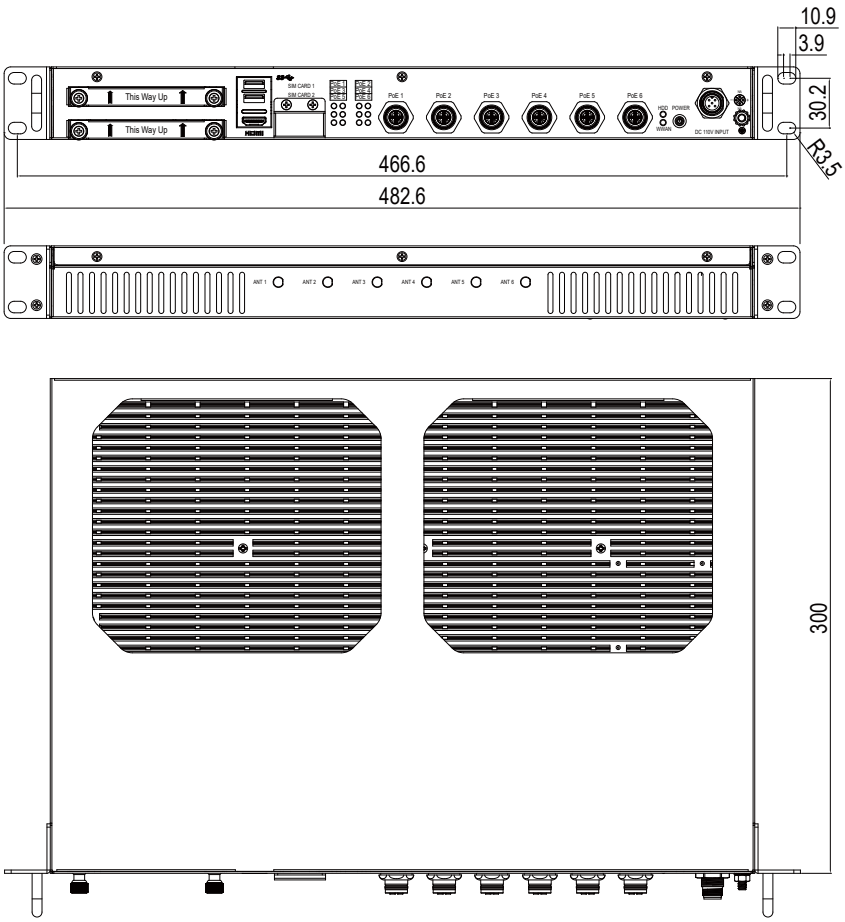
| System | |
|---|---|
| CPU | Intel Gen6 Core i7-6600U 2.6GHz up to 3.4GHz |
| | Intel Gen6 Core i5-6300U 2.4GHz up to 3GHz |
| | Intel Gen6 Core i3-6100U 2.3GHz |
| | Intel Gen6 Dual Core 3955U 2.0GHz |
| Memory | 2 x SO-DIMM DDR4 up to 32GB |
| LAN Chipset | 6 x Intel I210AT |
| Watchdog | Watchdog Timer Support, Offer 1 – 255 Step |
| **I/O** | |
| USB Port | 2 x USB 3.0 Ports |
| LAN | 6 x 10/100/1000 Mb/s w/ M12 X-code (optional PoE total 90W max.) |
| Video Port | 1 x HDMI |
| SIM Card Socket | 2 x SIM Card Sockets, supported onboard with eject |
| Expansion Bus | 2 x Mini-card slots (USB Bus only) |
| **Graphics** | |
| Graphics | Intel® HD Graphics 520 |
| | DirectX Video Acceleration (DXVA) for Accelerating Video Processing - Full AVC/VC1/MPEG2 HW Decode Supports DirectX 11/10.1/10/9 and OpenGL 4.0 |
| Resolution | Up to 4096 x 2304@60 Hz |
| **Software** | |
| Operating System | Win 10, Ubuntu 16.04 64bit |

| Environmental | |
|---|---|
| Operating Temp. | -40ºC ~ 70ºC EN50155 Tx, ambient w/ 0.6m/s airflow |
| Storage Temp. | -40ºC ~ 85ºC |
| Relative Humidity | 10% RH – 90% RH (non-condensing) |
| Vibration Operating | EN 50155 EN61373 |
| Shock | EN 50155 EN61373 |
| Certifications | EN 50155, EN50121-1, EN50121-3-2 |
| **Storage** | |
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 |
| | 1 x mSATA |
| **Power Requirement** | |
| Power Input | 77-137V DC Power Input with Isolation (optional for 24V/ 48V/ 72V) |
| Power Protection | Automatics Recovery Short Circuit Protection |
| | Meet EN50155 Class S2 |
| **Mechanical** | |
| Construction | Aluminum Alloy |
| Mounting | 1U 19' Rock mount |
| Weight | 2500g |
| Dimensions | 482 x 300 x 44mm |

All specifications are subject to change without notice.

# Dimensions

Unit : mm




Please Scan The QR Code For More Information

# Ordering Information

| | |
|---|---|
| **Part Number** | RBOX-1000P-i7 (P= w/PoE, Empty= w/o PoE), option for i5/i3/C1 |
| **Description** | Intel Gen6 Core i7-6600U CPU with Isolated 110VDC Input 6 x GbE with optional PoE/ In-Vehicle Computer/ EN50155 Railway Applications |
| **State of Origin** | Made in Taiwan |

# Optional Accessories

| | |
|---|---|
| **DRAM** | SO-DIMM max.DDR4-2133,4GB~32GB,0~70ºC/-40~85ºC |
| **SATA SSD** | 2.5inch MLC/TLC 64GB~1TB 0~70ºC/-40~85ºC |
| **mSATA** | MLC 16G~512GB, 0~70ºC/-40~85ºC |
| **Modem** | LTE miniPCIe card |
| **GPS** | GPS miniPCIe card |
| **M12 X code external cable** | Cat6 M12 X-code w/GND 8PIN LAN Male 1 meter long |

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