

IN-VEHICLE Computing

# 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: -40°C ~ 70 °C) 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

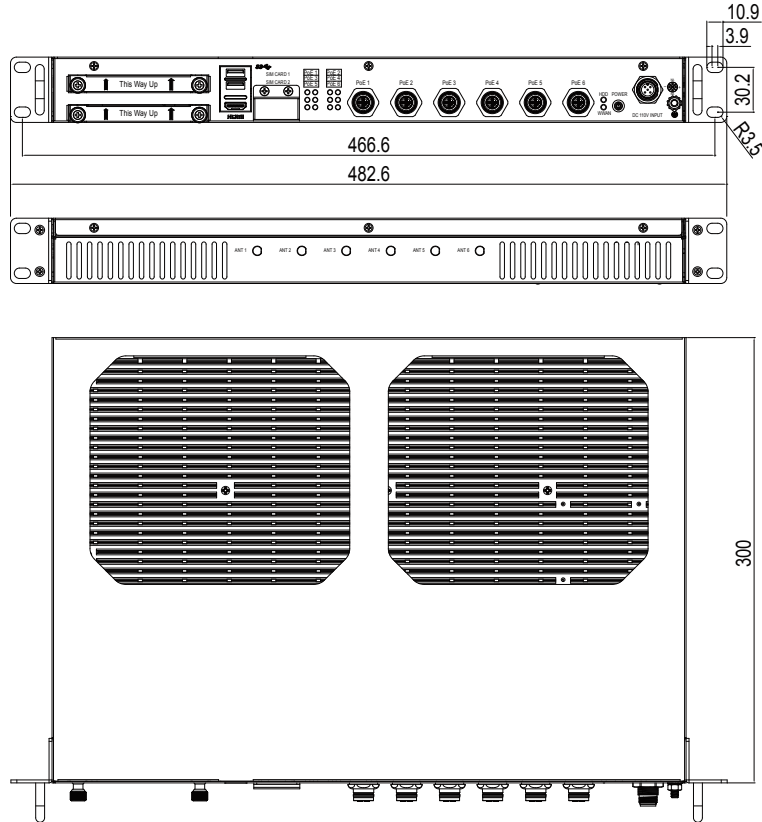
System	
CPU	Intel Gen6 Core i7-6600U 2.6GHz up to 3.4GHz
	Intel Gen6 Core i5-6300U 2.4GHz up to 3GHz
	Intel Gen6 Core i3-6100U 2.3GHz
	Intel Gen6 Dual Core 3955U 2.0GHz
Memory	2 x SO-DIMM DDR4 up to 32GB
LAN Chipset	6 x Intel I210AT
Watchdog	Watchdog Timer Support, Offer 1 – 255 Step
I/O	
USB Port	2 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.	-40°C ~ 70°C EN50155 Tx, ambient w/ 0.6m/s airflow
Storage Temp.	-40°C ~ 85°C
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, EN45545-2
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
Power Protection	Automatics Recovery Short Circuit Protection Meet EN50155 Class S2
Mechanical	
Construction	Aluminum Alloy
Mounting	1U 19" Rack 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,0~70°C/-40~85°C
SATA SSD	2.5inch MLC/TLC 64GB-1TB 0~70°C/-40~85°C
mSATA	MLC 16G~512GB, 0~70°C/-40~85°C
Modem	LTE miniPCle card
GPS	GPS miniPCle card
M12 X code external cable	Cat6 M12 X-code w/GND 8PIN LAN Male 1 meter long

All specifications are subject to change without notice.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660