

tBOX322-882-FL

Fanless Embedded System with
4th Generation Intel® Core™ Processor
for Railway PC

NEW



▲ Front view



Specifications

Standard Color	Silver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	4th Generation Intel® Core™ processor ; 4th Gen. Intel® Core™ i7-4650U (1.7 GHz up to 3.3 GHz) or 4th Gen. Intel® Core™ i3-4010U (1.7 GHz)
System Memory	DDR3L-1600 4 GB or 8 GB DRAM
Chipset	SoC integrated
BIOS	AMI UEFI BIOS with OA 3.0 built
System I/O Outlet	<div>Rear Side</div> <div>Front Side</div>
Watchdog Timer	255 levels, 0 ~ 255 sec.
Storage	1 x 2.5" SATA HDD (Removable and with lock protection) 1 x CFast™
Expansion Interface	3 x PCI Express Mini Card 2 x SIM card slots
System Indicator	1 x green LED for system power on 1 x green LED for HDD active 1 x green LED for LAN1 link 1 x green LED for LAN2 link
Power Supply	Power input : 14VDC ~ 32VDC (isolation) Typical : 24VDC
Power Consumption	1.8A @ 24V

Features

- EN50155, EN50121 certificates
- Fanless with operating temperature range of -40°C ~ +70°C (EN50155 class TX)
- Comply to fire protection of railway vehicles Europe standard PrCEN TS 45545-2
- 4th Generation Intel® Core™ i7 1.7 GHz up to 3.3 GHz or Intel® Core™ i3 1.7 GHz processor (Haswell)
- High performance DDR3L-1600 4 GB/8 GB memory
- Isolated RS-232/422/485 and DIO ports
- Supports USB 3.0 and SATA3 interface
- 1 removable & lockable 2.5" SATA HDD and 1 CFast™
- 3 internal PCI Express Mini Card slot and 2 SIM slots
- Lockable I/O interface and M12 type LAN, audio, power and USB connector
- Suspension designed for HDD



▲ Rear view

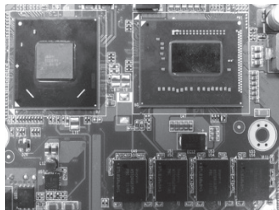
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F) W/T SSD -25°C ~ +55°C (-13°F ~ +131°F) W/T HDD
Storage Temperature	-40°C ~ +80°C (-40°F ~ +176°F)
Humidity	5% ~ 95%, non-condensing
Vibration Endurance	5 Grms with CFast™ (5-500Hz, X, Y, Z directions) 3 Grms with HDD (5-500Hz, X, Y, Z directions)
Dimensions	244 mm (9.6") (W) x 180.5 mm (7.1") (D) x 65.1 mm (2.56") (H)
Weight (net/gross)	2.94 kg (6.48 lb)/ 3.94 kg (8.68 lb)
Certificate	CE (Class A), EN50155, EN50121, EN45545-2, EN60950-1 compliance
EOS Support	WE8S, WES 7, Linux

Ordering Information

Standard	
tBOX322-882-FL-i7-DC	Fanless embedded system with 4th Generation Intel® Core™ i7 processor, 4 GB DDR3-1600, 2 GbE LAN (M12), 2 isolated COM, CFast™
tBOX322-882-FL-i3-DC	Fanless embedded system with 4th Generation Intel® Core™ i3 processor, 4 GB DDR3-1600, 2 GbE LAN (M12), 2 isolated COM, CFast™
Optional	
2.5" SATA HDD/SSD	16 GB or above
CFast™	1 GB or above
3G module	
Wi-Fi module	
Wi-Fi Bluetooth	
GPS module	
M12 Gigabit LAN cable	
M12 power cable	
M12 USB cable	
M12 audio cable	
Remote switch cable	

*Specifications and certifications are based on options and may vary.

Expansion & Installation



Onboard 4th Gen. Intel® Core™ CPU and 4 GB/ 8 GB DDR3L-1600 DRAM



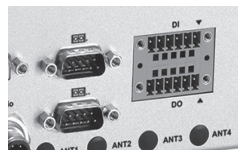
Swappable and lockable SATA3 HDD/SSD, Audio jack, USB 3.0 and CFast™



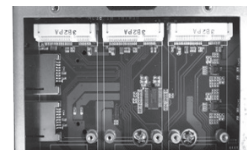
M12 type for Gigabit LAN, USB 2.0 and audio ports



M12 type power connector and remote switch connector



Isolated RS-232/422/485 and DIO ports



3 x Mini Card slots with 2 x SIM slot

Packing List

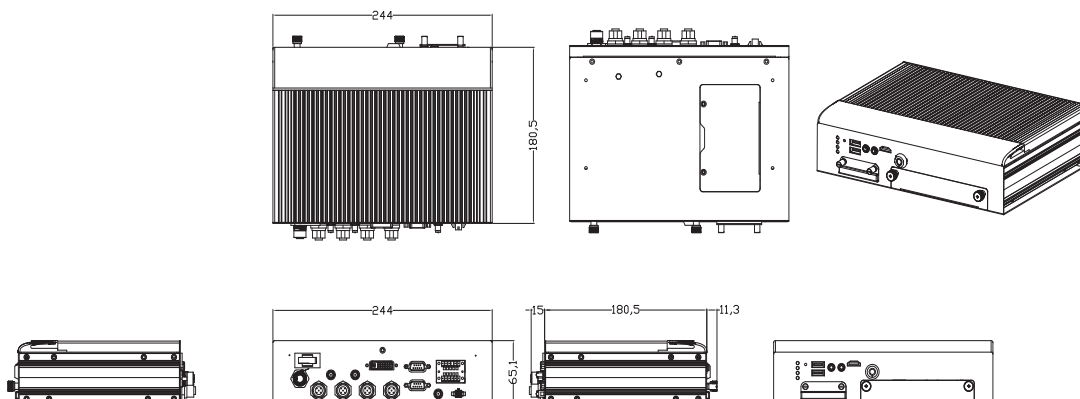
- 1 x quick manual
- 1 x driver CD
- 1 x screw pack
- 4 x foot pad
- 1 x wall-mount kit

Power Protection

DC Version

- SCP (short circuit protection)
- OVP (over voltage protection)
- UVP (under voltage protection)

Dimensions



Overview

Embedded Systems

2
Embedded Systems for Transportation

Embedded Field Controllers

Industrial Firewall

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories



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.

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