tBOX312-870-FL

Fanless Embedded System with 3rd Generation Intel® Core™ Processor and Intel® QM77 for Vehicle PC



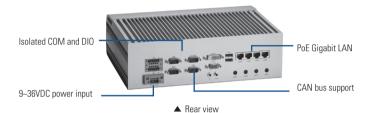


Specifications

Ctandard Calar	Cilvar Block	
Standard Color	Silver-Black	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	3rd generation Intel® Core™ processor; 3rd generation Intel® Core™ i7-3517UE (1.7 GHz up to 2 GHz) or 3rd generation Intel® Core™ i3-3217UE (1.6 GH	
System Memory	DDR3-1600 4 GB DRAM onboard	
Chipset	Intel® QM77	
BIOS	AMI UEFI BIOS with OA 3.0 built	
System I/O Outlet	Rear Side 4 x GbE LAN 3 x isolated RS-232/422/485 1 x isolated DI/D0 (4-in/4-out) 1 x isolated CAN Bus 2 x USB 2.0 2 x audio (mic-in/line-out, screw type) 1 x VGA 1 x DVI-D 1 x VDC power input 1 x remote power switch 4 x antenna opening	
	Front Side 2 x USB 3.0 2 x audio (mic-in/line-out, screw type) 1 x reset switch 2 x 2.5" SATA drive trays 1 x CFast™ slot	
Watchdog Timer	255 levels, 0 ~ 255 sec./min.	
Storage	2 x 2.5" SATA HDD (Removable and with lock protection supports RAID 0/1 1 x CFast™)
Expansion Interface	3 x PCI Express Mini Card 1 x SIM card slot	
System Indicator	1 x green LED for system power on 1 x blue LED for HDD active 1 x green LED for LAN1 link 1 x green/yellow LED for LAN 1 speed 1 x green LED for LAN2 link 1 x green/yellow LED for LAN 2 speed 1 x green LED for LAN3 link 1 x green LED for LAN3 link 1 x green/yellow LED for LAN 3 speed 1 x green LED for LAN4 link 1 x green/yellow LED for LAN 4 speed	

Features

- eMark, ISO7637 certificates
- Comply to fire protection of railway vehicles Europe standard PrCEN TS 45545-2
- 3rd generation Intel® Core™ i7 1.7 GHz up to 2.8 GHz or Intel® Core™ i3 1.6 GHz processor
- High performance DDR3-1600 4 GB memory
- Fanless with operating temperature range of -40°C ~ +70°C
- Isolated RS-232/422/485, CAN bus and DIO
- Supports USB 3.0 and SATA3
- 2 removable & lockable 2.5" SATA HDD and 1 CFast™
- 3 internal PCI Express Mini Card slot and 1 SIM slot
- IEEE802.3at PoE Gigabit LAN

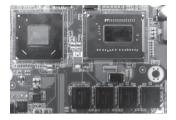


Power Supply	Power input: 9 ~ 36VDC, typical 12/24VDC
Power Consumption	1.8A @ 24V (without PoE)
	PoE power output max 30W
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F) W/T SSD
	-25°C ~ +55°C (-13°F ~ +131°F) W/T HDD
Storage Temperature	-40°C ~ +80°C (-40°F ~ +176°F)
Humidity	5% ~ 95%, non-condensing
Vibration Endurance	5 Grms with CFast™ (5-500Hz, X, Y, Z directions)
	1 Grms with HDD (5-500Hz, X, Y, Z directions)
Dimensions	288 mm (11.33") (W) x 211 mm (8.3") (D)
	x 85.7 mm (3.37") (H)
Weight (net/gross)	5.5 kg (12.12 lb)/6.5 kg (14.33 lb)
Certificate	CE (Class A), e13, ISO7637, EN60950 compliance
EOS Support	WE8S, WES 7, Linux

Ordering Information

Standard tBOX312-870-FL-i7-DC Fanless vehicle embedded system with 3rd generation Intel® Core™ i7 processor, 4GB DDR3-1600, 4 GbE PoE Ethernent, 3 isolated COM, CFast™ and isolated CAN to tBOX312-870-FL-i3-DC Fanless vehicle embedded system with 3rd generation I Core™ i3 processor, 4GB DDR3-1600, 4 GbE PoE Ethern 3 isolated COM, CFast™ and isolated CAN bus Optional 2.5" SATA HDD/SSD 16 GB or above GFast™ 1 GB or above 3G module 1 GB or above	
Intel® Core™ i7 processor, 4GB DDR3-1600, 4 GbE Pot Ethernent, 3 isolated COM, CFast™ and isolated CAN by tBOX312-870-FL-i3-DC Fanless vehicle embedded system with 3rd generation In Core™ i3 processor, 4GB DDR3-1600, 4 GbE PoE Ethernent i3 isolated COM, CFast™ and isolated CAN bus Optional 2.5" SATA HDD/SSD 16 GB or above CFast™ 1 GB or above	
Core™ i3 processor, 4GB DDR3-1600, 4 GbE PoE Ethern 3 isolated COM, CFast™ and isolated CAN bus Optional 2.5" SATA HDD/SSD 16 GB or above CFast™ 1 GB or above	
2.5" SATA HDD/SSD 16 GB or above CFast™ 1 GB or above	
2.5" SATA HDD/SSD 16 GB or above CFast™ 1 GB or above	
Wi-Fi module Wi-Fi Bluetooth GPS module	

Expansion & Installation



Onboard 3rd generation Intel® Core™ i7 or i3 processor and 4 GB DDR3-1600 DRAM



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



Systems

2 Embedded Systems for Transportation

> Embedded Controllers

Industrial Firewall

Digital Signage Solutions

Embedded

Industrial

Barebone Systems

Chassis

Backplanes

Supplies

Peripherals &

IEEE802.3at PoE Gigabit LAN



Vehicle power input with ACC support

www.ipc2u.ru



Isolated RS-232/422/485, CAN bus and DIO



3 PCIe Mini Card slots with 1 SIM slot

Packing List

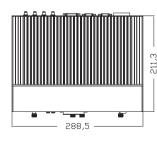
- 1 x quick manual
- 1 x driver CD
- 1 x screw pack
- 4 x foot pad
- 1 x wall-mount kit

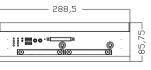
Power Protection

DC Version

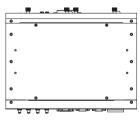
SCP (short circuit protection) OVP (over voltage protection) UVP (under voltage protection) ISO7637 pulse 1/29/39/3b/4/5a

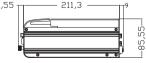
Dimensions





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* All specifications and photos are subject to change without notice.



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