

tBOX330-870-FL

Fanless Embedded System with 3rd Generation Intel® Core™ Processor and Intel® OM77 for Marine PC



▲ Front view



Features

- IEC60945 certificate
- 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 onboard
- Fanless with operating temperature range of -40°C \sim +70°C
- Isolated RS-232/422/485, CAN bus and DIO ports
- Supports USB 3.0 and SATA3 interface
- 2 removable & lockable 2.5" SATA HDD and 1 CFast™
- 3 internal PCI Express Mini Card slot and 1 SIM slot



Specifications

Standard Color	Silver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	3rd generation Intel® Core™ i processor ; 3rd generation Intel® Core™ i7-3517UE (1.7 GHz up to 2.8 GHz) or 3rd generation Intel® Core™ i3-3217UE (1.6 GHz)
System Memory	DDR3-1600 4 GB DRAM
Chipset	Intel® QM77
BIOS	AMI UEFI BIOS with OA 3.0 built
System I/O Outlet	Rear Side 4 x GbE 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 ^M 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 IED for LAN2 link 1 x green/yellow LED for LAN 2 speed 1 x green LED for LAN3 link 1 x green/yellow LED for LAN 3 speed 1 x green/yellow LED for LAN 4 speed 1 x green LED for LAN4 link 1 x green/yellow LED for LAN 4 speed



Power Supply	Power input: 14~32VDC, Typical 24VDC
Power Consumption	1.8A @ 24V
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), IEC60945 certificate, EN45545-2 compliance
EOS Support	WE8S, WES 7, Linux

Ordering Information

Standard

tBOX330-870-FL-i7-DC	Fanless marine embedded system with 3rd generation Intel® Core™ i7 processor, 4GB DDR3-1600, 4 GbE LAN, 3 isolated COM, CFast™ and isolated CAN bus
tB0X330-870-FL-i3-DC	Fanless marine embedded system with 3rd generation Intel® Core™ i3 processor, 4GB DDR3-1600, 4 GbE LAN, 3 isolated COM, CFast™ and isolated CAN bus
Optional	
2.5" SATA HDD/SSD	16 GB or above
05 74	
	1 GB or above
3G module	1 GB or above
CFast™ 3G module Wi-Fi module Wi-Fi Bluetooth	1 GB or above

* All specifications and photos are subject to change without notice



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





Four Gigabit LAN ports



24VDC power input



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



3 PCle Mini Card slots with 1 SIM slot

Packing List

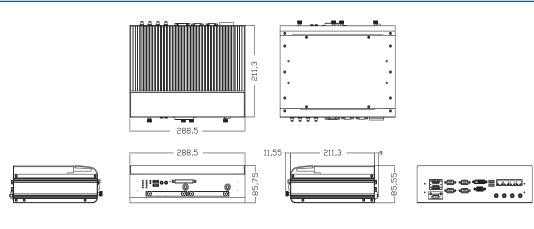
- 1 x quick manual 1 x driver CD
- 1 x screw pack
- 4 x foot pad 1 x wall-mount kit

Power Protection

DC Version

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

Dimensions



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Overview





Systems for Transportation



Embedded Field Controllers





Digital Signage Solutions



Embedded MicroBoxes





Industrial Chassis





Power Supplies



Peripherals & Accessories

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Assured Systems

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US

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

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