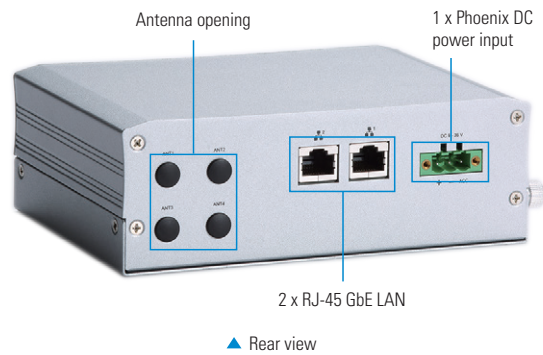
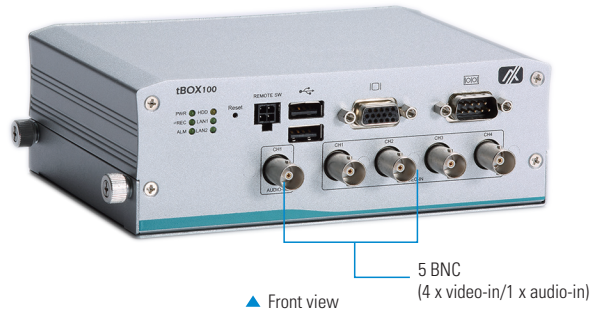


# tBOX100-838-FL

Fanless Embedded System with Intel® Atom® Processor E3845 for Vehicle, Railway and Marine PC

## Features

- CE (Class A) certified, E-Mark, ISO 7637-2 EN 50155, EN 50121, DNV 2.4 and IEC 60945 compliant
- Intel® Atom® processor E3845 4C @ 1.91 GHz
- 4GB DDR3L-1333 memory onboard
- Wide operating temperatures from -40°C to +60°C
- Intelligent solution of vehicle power management (ACC ignition)
- Compact size with multiple I/Os
- 1 PCI Express Mini Card slot and 1 SIM card slot



## Specifications

Standard Color	Silver				
Construction	Aluminum extrusion and heavy-duty steel, IP40				
CPU	Intel® Atom® processor E3845 (4C @ 1.91 GHz)				
System Memory	DDR3L-1333, 4GB memory onboard				
Chipset	SoC integrated				
BIOS	AMI				
System I/O Outlet	<table border="0"> <tr> <td>Rear</td> <td>                     Option #1: 2 x M12 A-coded GbE LAN +                      1 x M12 DC power input                      Option #2: 2 x RJ-45 GbE LAN +                      1 x Phoenix DC power input                      4 x Antenna opening                 </td> </tr> <tr> <td>Front</td> <td>                     1 x RS-232/422/485                      1 x VGA                      2 x USB 2.0                      1 x Remote switch                      1 x Reset button                      5 x BNC (4 x video-in/1 x audio-in)                 </td> </tr> </table>	Rear	Option #1: 2 x M12 A-coded GbE LAN + 1 x M12 DC power input Option #2: 2 x RJ-45 GbE LAN + 1 x Phoenix DC power input 4 x Antenna opening	Front	1 x RS-232/422/485 1 x VGA 2 x USB 2.0 1 x Remote switch 1 x Reset button 5 x BNC (4 x video-in/1 x audio-in)
Rear	Option #1: 2 x M12 A-coded GbE LAN + 1 x M12 DC power input Option #2: 2 x RJ-45 GbE LAN + 1 x Phoenix DC power input 4 x Antenna opening				
Front	1 x RS-232/422/485 1 x VGA 2 x USB 2.0 1 x Remote switch 1 x Reset button 5 x BNC (4 x video-in/1 x audio-in)				
Watchdog Timer	255 levels, 1 to 255 sec.				
Storage	1 x 2.5" SATA drive (9.5 mm height)				
RAID function	N/A				
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x SIM card slot				
System Indicator	1 x Green LED indicator for system power 1 x Green LED indicator for programmable #1 1 x Green LED indicator for programmable #2 1 x Yellow LED indicator for HDD active 1 x Green LED indicator for LAN #1 active 1 x Green LED indicator for LAN #2 active				
Power Supply	9 to 36 VDC, typical: 12/24 VDC 14 to 32 VDC, typical: 24 VDC				
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. SSD -25°C to +55°C (-13°F to +131°F) with W.T. HDD				
Humidity	5% to 95%, non-condensing				

Vibration Endurance	2 Grms w/ SSD (5 to 500Hz, X, Y, Z direction; random) 1 Grms w/ HDD (5 to 500Hz, X, Y, Z direction; random)
Shock	Comply EN 61373 section 10 table 3 category 1 class A and class B up to 5 Grms (30ms, ±X/Y/Z direction)
Dimensions	163.8 mm (6.44") (W) x 108 mm (4.25") (D) x 56.3 mm (2.22") (H)
Weight (net/gross)	0.77 kg (1.69 lb)/1.40 kg (3.09 lb)
Certifications	CE (Class A) certified, E-Mark, ISO 7637-2 EN 50155, EN 50121, DNV 2.4 and IEC 60945 compliant
EOS support	Windows® 10, WE8S, WES 7, Linux, VxWorks7

## Ordering Information

Standard	
tBOX100-838-FL-E3845-RJ-ACC-DC (P/N: E26N100100)	Fanless vehicle embedded system with Intel® Atom® processor E3845, 4GB RAM, 2 GbE LANs (RJ-45), phoenix DC-in, COM, 5 BNC (4 x video-in/1 x audio-in), capture card and ACC ignition
tBOX100-838-FL-E3845-24MRDC	Fanless railway embedded system with Intel® Atom® processor E3845, 4GB RAM, 2 GbE LANs (M12), M12 DC-in, COM, 5 BNC (4 x video-in/1 x audio-in) and capture card

### Optional

- 2.5" SATA HDD/SSD
- 3G/4G/GPS module
- Wi-Fi/Bluetooth module
- PCI Express Mini Card
- Remote switch cable
- M12 LAN cable
- M12 power cable

\*Specifications and certifications may vary based on different requirements.

## Expansion & Installation



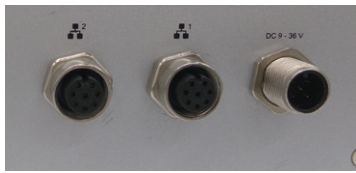
5 BNC connectors (4 x video-in/1 x audio-in) for DVR surveillance system



1 swappable 2.5" SATA HDD/SSD



1 PCI Express Video Capture Card  
1 PCI Express Mini Card slot + 1 SIM card slot



Optional M12 connectors for DC-in and LAN jacks



Onboard processor and system memory for great reliability and stability



DIN-rail, wall mount supported for various applications

## Packing List

- 1 x Quick manual
- 1 x Driver CD
- 1 x Screws pack
- 4 x Foot pad
- 1 x Wall mount Kit
- 1 x DIN-rail Kit
- 1 x DIO female connector (Optional)

## Power Protection

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

### Vehicle Version

- ISO 7637-2 pulse 1/2/3/4
- Battery protection setting: Low voltage, very low voltage
- Ignition control setting: Low voltage counter, ACC-ON delay, shut down delay

## Dimensions

