

tBOX324-894-FL NEW

Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Vehicle, Railway and Marine PC

Features

- CE (Class A), FCC, EN 50155, EN 50121, E-Mark, ISO 7637, DNV 2.4 certified and EN 45545-2, IEC 60945 compliance
- 7th gen Intel® Core™ i7/i5/i3 & Celeron® (Kaby Lake-U SoC)
- Modular I/O design, 4 GbE LANs (M12/RJ-45), 3/4 isolated COM, CANbus (optional)
- 2 DDR4-1866/2133 SO-DIMM, up to 32GB
- Typical 12/24/110 VDC power input by different power modules and certified by transportation certifications
- Fanless design and wide temperature range from -40°C to +70°C
- Intelligent vehicle power management solution
- 2 swappable 2.5" SATA drive
- 3 PCIe Mini Card and 1 SIM card socket



Specifications

Standard Color	Silver-Black				
Construction	Aluminum extrusion and heavy-duty steel				
CPU	7th generation Intel® Core™ i7-7600U 2C@2.8-3.9 GHz 7th generation Intel® Core™ i5-7300U 2C@2.6-3.5 GHz 7th generation Intel® Core™ i3-7100U 2C@2.4 GHz Intel® Celeron® 3965U 2C@2.2 GHz				
System memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB				
Chipset	SoC integrated				
BIOS	AMI				
System I/O Outlet	<table border="0"> <tr> <td>Rear Side</td> <td> <ul style="list-style-type: none"> 1 x M12 5P/TB 3P power connector 1 x Isolated COM 1 x DB9 isolated COM or CANbus (optional) 2 x 2x5P TB isolated RS-232/422/485 and 1 x 2x6P TB isolated DIO 4-in/4-out (optional) 1 x DVI-I 1 x VGA 1 x Remote switch 2 x Audio, mic-in/line-out 4 x M12 A-coded GbE LAN 3 x Antenna opening </td> </tr> <tr> <td>Front Side</td> <td> <ul style="list-style-type: none"> 8 x LAN LED indicator (link/activity) 1 x HDD activity LED indicator 1 x power LED indicator 4 x USB 3.0 1 x CFast™ 1 x Reset button 2 x 2.5" SATA drive tray </td> </tr> </table>	Rear Side	<ul style="list-style-type: none"> 1 x M12 5P/TB 3P power connector 1 x Isolated COM 1 x DB9 isolated COM or CANbus (optional) 2 x 2x5P TB isolated RS-232/422/485 and 1 x 2x6P TB isolated DIO 4-in/4-out (optional) 1 x DVI-I 1 x VGA 1 x Remote switch 2 x Audio, mic-in/line-out 4 x M12 A-coded GbE LAN 3 x Antenna opening 	Front Side	<ul style="list-style-type: none"> 8 x LAN LED indicator (link/activity) 1 x HDD activity LED indicator 1 x power LED indicator 4 x USB 3.0 1 x CFast™ 1 x Reset button 2 x 2.5" SATA drive tray
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Watchdog Timer	255 levels, 0 ~ 255 secs./mins.				
Storage	2 x 2.5" 7/9.5mm SATA drive 1 x CFast				
Expansion Interface	3 x full-size PCIe Mini Card slot 1 x SIM card slot				
System Indicator	1 x LED indicator for system power 1 x LED indicator for HDD active 4 x LED indicator for LAN activated 4 x LED indicator for LAN linked				
Power Supply	Power input: 9 - 36 VDC, typical: 12/24 VDC (eMark) Power input: 14 - 32 VDC, typical: 24 VDC (EN 50155, DNV 2.4) Power input: 77 - 137.5 VDC, typical: 110 VDC (EN 50155)				
Power Consumption	TBD				
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F) with W.T. SSD -25°C ~ +55°C (-13°F ~ +131°F) with W.T. HDD				



▲ Front view



▲ Rear view

Humidity	5% ~ 95%, non-condensing
Vibration Endurance	5 Grms w/ SSD (5-500 Hz, X/Y/Z direction; random) 1 Grms w/ HDD (5-500 Hz, X/Y/Z direction; random)
Dimensions	288 mm (11.33") (W) x 211 mm (8.3") (D) x 85.7 mm (3.37") (H)
Weight	TBD
Certificate	CE (Class A), FCC, EN 50155, EN50121, E-Mark, ISO 7637, DNV 2.4 certificate, EN 45545-2, IEC 60945 compliance
EOS support	Windows® 10, Linux

Ordering Information

Standard	
tBOX324-894-FL-Celeron-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Celeron® processor 3965U, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 9-36 VDC
tBOX324-894-FL-i3-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Core™ i3-7100U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 9-36 VDC
tBOX324-894-FL-i5-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Core™ i5-7300U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 9-36 VDC
tBOX324-894-FL-i7-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Core™ i7-7600U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 9-36 VDC
tBOX324-894-FL-Celeron-DIO-24VDC	Fanless railway/marine embedded system with Intel® Celeron® processor 3965U, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 4-32 VDC
tBOX324-894-FL-i3-DIO-24VDC	Fanless railway/marine embedded system with Intel® Core™ i3-7100U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 14-32 VDC
tBOX324-894-FL-i5-DIO-24VDC	Fanless railway/marine embedded system with Intel® Core™ i5-7300U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 14-32 VDC
tBOX324-894-FL-i7-DIO-24VDC	Fanless railway/marine embedded system with Intel® Core™ i7-7600U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 14-32 VDC
tBOX324-894-FL-Celeron-DIO-110VDC	Fanless railway embedded system with Intel® Celeron® processor 3965U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 77-137.5 VDC
tBOX324-894-FL-i3-DIO-110VDC	Fanless railway embedded system with Intel® Core™ i3-7100U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 77-137.5 VDC
tBOX324-894-FL-i5-DIO-110VDC	Fanless railway embedded system with Intel® Core™ i5-7300U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 77-137.5 VDC
tBOX324-894-FL-i7-DIO-110VDC	Fanless railway embedded system with Intel® Core™ i7-7600U processor, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 77-137.5 VDC

Optional

2.5" SATA HDD/SSD
mSATA SSD
3G/4G/GPS module
Wi-Fi/Bluetooth module
Audio module
CANbus module
Capture card module
I/O module card

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

Dimensions

