

tBOX324-894-FL NEW

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

Features

- EN 50155, EN 50121, E-Mark, ISO 7637, and DNV 2.4 certified; and EN 45545-2, IEC 60945 compliant
- 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 COMs, 1 CANbus (optional)
- 2 DDR4-1866/2133 SO-DIMM, up to 32GB
- Typical 12/24/110 VDC power input for different power modules, available with various transportation certificates
- Fanless design and suitability for wide operating temperatures from -40°C to +70°C
- Intelligent solution of vehicle power management
- 2 swappable 2.5" SATA drives
- 3 PCIe Mini Card slots 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	Rear Side Front Side
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 (E-Mark) Power input: 14 ~ 32 VDC, typical: 24 VDC (EN 50155, DNV 2.4) Power input: 77 ~ 137.5 VDC, typical: 110 VDC (EN 50155)
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
Humidity	5% ~ 95%, non-condensing



▲ Front view



▲ Rear view

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	5 kg (11 lb)/6.5 kg (14.33 lb)
Certificates	CE (Class A), FCC, EN 50155, EN 50121, E-Mark, ISO 7637, and DNV 2.4 certified; EN 45545-2 and IEC 60945 compliant
EOS support	Windows® 10 x64, Linux

Ordering Information

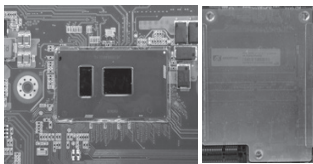
Standard	
tBOX324-894-FL-Celeron-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Celeron® processor 3965U, 4 USB, VGA+DVI, 4 GbE LANs (M12), 3 COM, 1 COM or CAN, DIO, 9 ~ 36 VDC
tBOX324-894-FL-i3-DIO-12/24VDC	Fanless vehicle embedded system with Intel® Core™ i3-7100U processor, 4 USB, VGA+DVI, 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 card module

*Specifications and certificates may vary subject to options required.

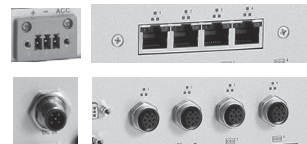
Expansion & Installation



Onboard processor design and unique thermal/fasten plate on the system memory for great reliability and stability



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



Optional M12 type for DC-in jack and LAN jack



DVI-I and VGA display



Isolated RS-232/422/485 ports
(Optional DIO and 2 x COM module)
(Optional CANbus / COM port)



3 full-size PCIe Mini Card slots and 1 SIM card slot

Packing List

1x Quick Manual
1x Driver CD
1x Screws pack
4x Foot pad
1x Wall-mount brackets
1x DIO female connector (optional)

Power Protection

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

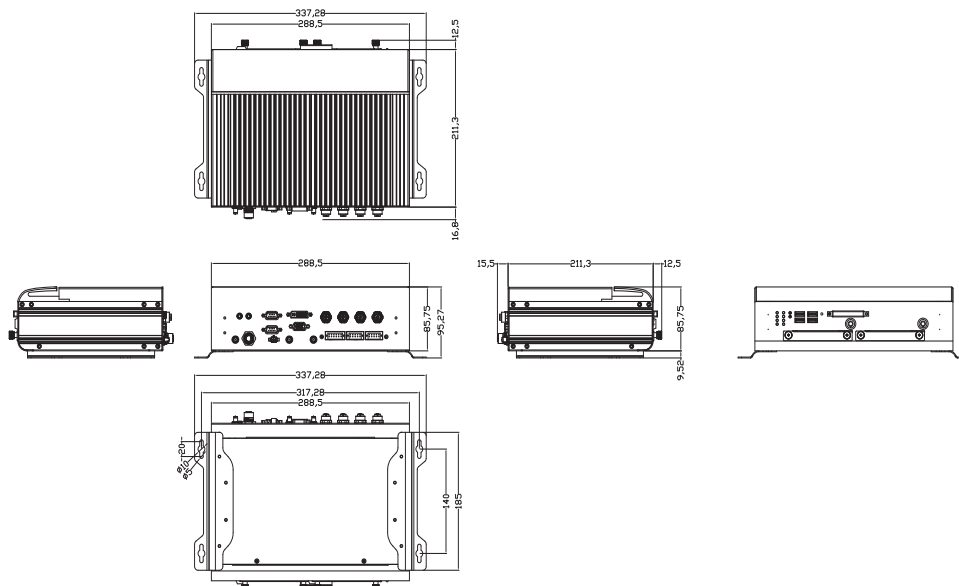
Vehicle Version

ISO 7637 pulse 1/2/3/4/5a

Setting for battery protection: Low voltage or very low voltage

Setting for ignition control: Low voltage counter, ACC-ON delay, Shut down delay

Dimensions



Updated Apr. 18, 2017.

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

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