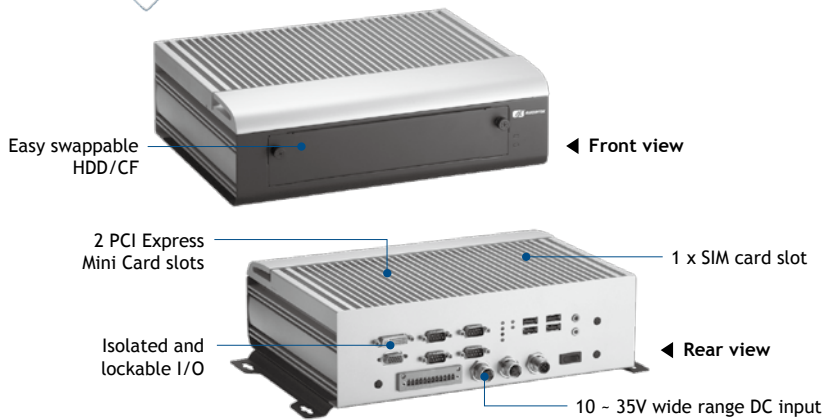


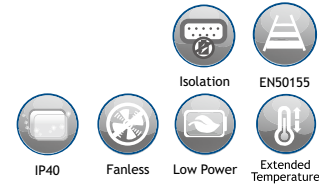
# tBOX320-852-FL

Fanless Embedded System with Intel® Core™2 Duo Processor up to 2.26 GHz and Intel® GM45 Chipset for Railway PC



## Specifications

Standard Color	Silver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Onboard Intel® Core™2 Duo SP9300 processor up to 2.26 GHz
System Memory	Onboard DDR3-800/1066 2 GB DRAM
Chipset	Intel® GM45 + ICH9M
BIOS	AMI
System I/O Outlet	4 x isolated RS-232/422/485 (COM 1 - 4), console re-direction supported 1 x VGA 1 x DVI-D 1 x HD Audio (Mic-in/Line-out) 2 x 10/100/1000Mbps Ethernet (M12 female D-code for 10/100Mbps) 4 x USB 2.0 1 x isolated DIO (6-IN & 2-OUT) 1 x V <sub>OC</sub> power input connector 1 x isolated DI/DO power input connector 3 x antenna opening
Watchdog Timer	255 levels, 1-255 sec.
Storage	2 x 2.5" SATA HDD drive bay 1 x CompactFlash™
Expansion Interface	2 x PCI Express Mini Card 1 x SIM card
System Indicator	1 x green LED for system power-on 1 x red LED for HDD active 1 x green LED for LAN1 link 1 x green/yellow LED for LAN1 speed 1 x green LED for LAN2 link 1 x green/yellow LED for LAN2 speed
Power Supply	DC 12-32V input with isolation support Default rating: DC24V
Operating Temperature	-25°C ~ +55°C (77°F ~ 130°F) (with W.T. HDD)
Storage Temperature	-40°C ~ +80°C (-40°F ~ +176°F)
Humidity	10% ~ 90%, non-condensing
Vibration Endurance	2 Grms (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)	TBD
Certification	CE, EN50155, EN50121
EOS Support	XPE, WinCE, Linux



## Features

- Supports onboard Intel® Core™2 Duo SP9300 processor up to 2.26 GHz
- Intel® GM45 + ICH9M chipset
- Fanless operation
- Operatin temperature range of -25°C ~ +55°C
- 4 isolated RS-232/422/485 ports
- High performance onboard DDR3-800/1066 2 GB DRAM
- One 2.5" swappable SATA drive bay, 1 internal SATA drive bay and one CompactFlash™
- 2 internal PCI Express Mini Card slots with one SIM slot
- Lockable I/O interface and M12 LAN connector

## Power Protection

### DC Version

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

## Ordering Information

Standard	
tBOX320-852-FL 2.26G	Fanless embedded system with Intel® Core™2 Duo SP9300 (2.26 GHz), VGA, DVI-D, 2 10/100/1000Mbps Ethernet, 4 COM, 4 USB, CF & dual HDD support and onboard 2 GB DRAM
tBOX320-852-FL 1.2G	Fanless embedded system with Intel® Celeron® M 723 1.2 GHz, VGA, DVI-D, 2 10/100/1000Mbps Ethernet, 4 COM, 4 USB, CF & dual HDD support and onboard 2 GB DRAM
Optional	
2.5" HDD	40 GB or above
DDR2 SODIMM	Max. up to 2 GB
CompactFlash™	1 GB or above
Wall mount kit	

## Dimensions

