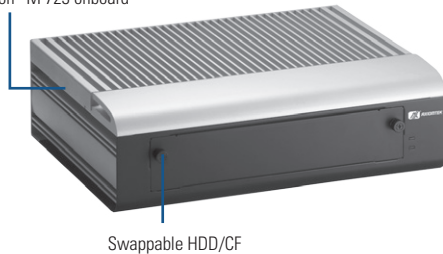


tBOX320-852-FL

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

Intel® Core™ 2 Duo SP9300 2.26 GHz
or Intel® Celeron® M 723 onboard



Swappable HDD/CF

▲ Front view

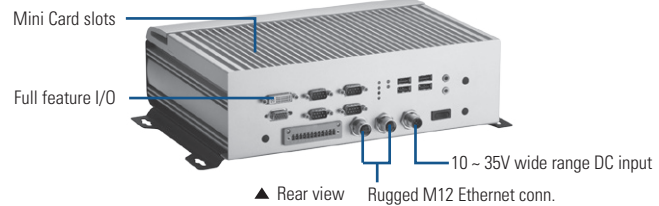


Specifications

| | |
|-----------------------|--|
| Standard Color | Silver-Black |
| Construction | Aluminum extrusion and heavy-duty steel, IP40 |
| CPU | Intel® Core™ 2 Duo SP9300 2.26 GHz processor or Intel® Celeron® M 723 1.2 GHz processor onboard |
| System Memory | DDR3-1333 2 GB DRAM onboard |
| 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 4-pin for 10/100Mbps, A-code 8-pin for 10/100/1000Mbps) (WG82574IT) 4 x USB 2.0 1 x isolated DIO (6-IN & 2-OUT) 1 x VDC 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 M12 5-pin connector |
| Power Consumption | 6.7A @ 12V 3.4A @ 24V 2.5A @ 32V |
| 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) |

Features

- Supports onboard Intel® Core™ 2 Duo SP9300 2.26 GHz or Intel® Celeron® M 723 1.2 GHz processor
- Intel® GM45 + ICH9M chipset
- EN50155, EN50121 certificates
- Fanless with operatin temperature range of -25°C ~ +55°C
- 4 isolated RS-232/422/485 ports
- High performance DDR3-1333 2 GB DRAM onboard
- One 2.5" swappable SATA drive bay, 1 internal SATA drive bay and one CompactFlash™
- 2 internal PCI Express Mini Card slots with 1 SIM slot
- Lockable I/O interface and M12 LAN connector
- Comply to fire protection of railway vehicles Europe standard PrCEN TS 45545-2



▲ Rear view Rugged M12 Ethernet conn.

| | |
|----------------------------|--|
| Dimensions | 288 mm (11.33") (W) x 211 mm (8.3") (D) x 85.7 mm (3.37") (H) |
| Weight (net/gross) | 5.06 kg (11.15 lb)/6.5 kg (14.33 lb) |
| Certification | CE, EN50155, EN50121, EN45545, EN60950 compliance |
| EOS Support | XPE, WinCE, Linux |
| *XPE: Windows® XP Embedded | |

Ordering Information

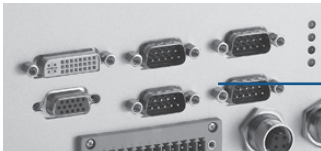
| Standard | |
|---------------------------|---|
| tBOX320-852-FL-2.26G-DC | Fanless embedded system with Intel® Core™ 2 Duo SP9300 2.26 GHz processor, 4 COM, 4 USB, CF, dual HDD support, onboard 2 GB DDR3-1333 DRAM and 4-pin M12 10/100Mbps Ethernet |
| tBOX320-852-FL-1.2G-DC | Fanless embedded system with Intel® Celeron® M 723 1.2 GHz processor, 4 COM, 4 USB, CF, dual HDD support and onboard 2 GB DRAM and 4-pin M12 10/100Mbps Ethernet |
| tBOX320-852-FL-2.26G-DC-G | Fanless embedded system with Intel® Core™ 2 Duo SP9300 2.26 GHz processor, 4 COM, 4 USB, CF, dual HDD support, onboard 2 GB DDR3-1333 DRAM and 8-pin M12 10/100/1000Mbps Ethernet (optional lockable HDD cover) |
| tBOX320-852-FL-1.2G-DC-G | Fanless embedded system with Intel® Celeron® M 723 1.2 GHz processor, 4 COM, 4 USB, CF, dual HDD support, onboard 2 GB DDR3-1333 DRAM and 8-pin M12 10/100/1000Mbps Ethernet (optional lockable HDD cover) |

| Optional | |
|---------------------------|----------------|
| 2.5" SATA HDD/SSD | 40 GB or above |
| CompactFlash™ | 1 GB or above |
| 3G module | |
| Wifi module | |
| Wifi+Bluetooth | |
| GPS module | |
| Graphic accelerator codec | |
| M12 LAN cable | 594N3202710E |
| M12 power cable | 594B8120B30E |
| M12 Giga LAN cable | 594N3202730E |

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

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

Expansion & Installation



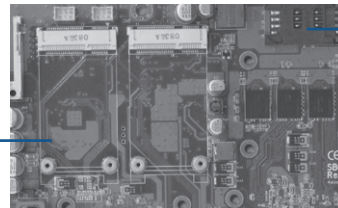
Lockable I/O connector



Easy access opening for HDD & CF

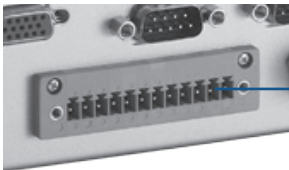


M12 type connector

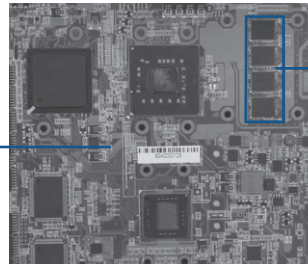


2 x Mini Card

SIM slot



Isolated digital I/O



BGA type CPU & chipset

2 GB DDR3-1333 DRAM onboard

- Overview
- Embedded Systems
- Embedded Systems for Transportation
- Embedded Field Controllers
- Embedded MicroBoxes
- Industrial Barebone Systems
- Industrial Chassis
- Backplanes
- Power Supplies
- Peripherals & Accessories

Packing List

- 1 x quick manual
- 1 x driver CD
- 1 x screw pack
- 4 x foot pad
- 8 x HDD anti-vibration damper
- 1 x wallmount Kit

Power Protection

DC Version

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

Dimensions

