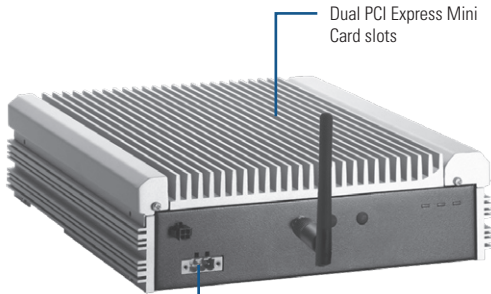


eBOX310-830-FL

Fanless Embedded System Featuring
Socket M Intel® Core™2 Duo Processor
up to 2.33 GHz for Vehicle PC



ISO-7637/e13 certification

▲ Front view



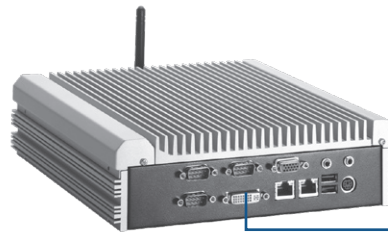
Specifications

Standard Color	Silver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Socket M for Intel® Core™2 Duo/ Core™2 Duo/ Core™ Solo Celeron® M up to 2.33 GHz processor
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB
Chipset	Intel® 945GME + ICH7M
BIOS	Phoenix-Award 4M Git with RPL/PXE boot ROM
System I/O Outlet	2 x RS-232 (COM 2/3) 1 x RS-232/422/485 (COM 1) 1 x DVI-I for DVI & CRT output 1 x Audio (Mic-in/Line-out) 1 x PS/2 keyboard/mouse 2 x 10/100/1000Mbps Ethernet 2 x USB 2.0 3 x SMA type connector opening 1 x VDC power input connector
Watchdog Timer	255 levels, 1 ~ 255 sec.
Storage	1 x 2.5" SATA HDD drive bay 1 x CompactFlash™
Expansion Interface	2 x PCI Express Mini Card (USB + PCI Express signal) 1 x SIM slot
System Indicator	1 x green LED for system power-on 1 x orange LED for HDD active 1 x green LED for Power status
Power Supply	DC12V mode: Operating voltage: DC9 ~ 16V Start voltage: DC13V or higher DC24V mode: Operating voltage: DC18 ~ 32V Start voltage: DC26V or higher
Power Consumption	12V @ 2.9A 24V @ 14A
Operating Temperature	-10°C ~ +50°C (32°F ~ 122°F) (with W.T. HDD)
Storage Temperature	-20°C ~ +80°C (-4°F ~ +176°F)
Humidity	10% ~ 90% , non-condensing
Vibration Endurance	2 Grms with HDD (5 - 500 Hz, X, Y, Z directions)
Dimensions	224.1 mm (8.82") (W) x 250 mm (9.84") (D) x 66.5 mm (2.62") (H)
Weight (net/gross)	3 kg (6.61 lb) /3.8 kg (8.37 lb)
Certification	CE, e13, ISO-7637, EN60950 compliance
EOS Support	XPE, WinCE, Linux

* XPE: Windows® XP Embedded

Features

- Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo/ Celeron® M up to 2.33 GHz
- Intel® 945GME + ICH7M chipset
- ISO-7637 Pulse1/2a/3a/3b/4/5a vehicle standard
- Wide-range vehicle power supply with ignition control
- Fanless operation design with full feature I/O
- High performance DDR2 SO-DIMM max. up to 2 GB
- Supports 2 PCI Express Mini Cards
- 1 2.5" SATA drive bay and CompactFlash™ slot
- Optional CAN Bus support



▲ Rear view

Independent dual display DVI-I

Ordering Information

Standard	
eBOX310-830-FL	Fanless embedded system with DC12V rating, socket M for Intel® Core™ Duo/ Core™2 Duo/ Core™ Solo/Celeron® processor
eBOX310-830-FL-24V-RC-DC	Fanless embedded system with DC24V rating, socket M for Intel® Core™ Duo/ Core™2 Duo/ Core™ Solo/Celeron® processor
eBOX310-830-FL-CAN	Fanless embedded system with CAN bus, socket M for Intel® Core™ Duo/ Core™2 Duo/ Core™ Solo/Celeron® processor

Optional	
CPU	Up to 2.33 GHz
2.5" SATA HDD	40 GB or above
DDR2 SO-DIMM	256 MB ~ 2 GB
CompactFlash	256 MB or above
Wifi module	
Wifi+Bluetooth	
3G module	
GPS module	
Graphic accelerator	
codec	

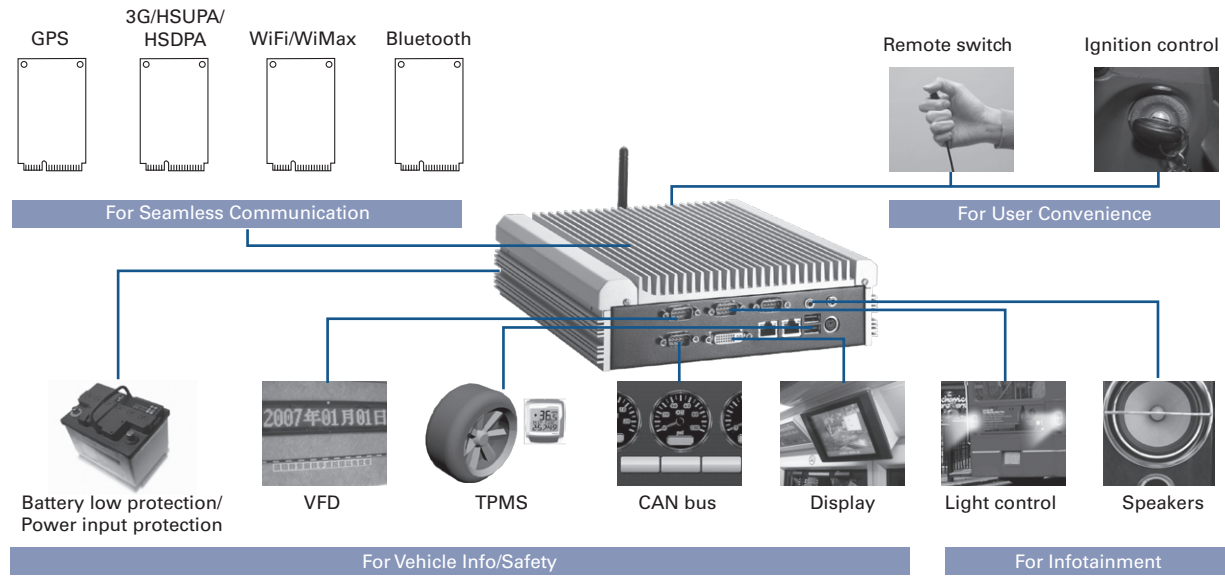
*Specifications and certifications are based on options and may vary.

Packing List

- 1 x quick manual
- 1 x driver CD
- 1 x Y cable for PS/2 keyboard/mouse
- 1 x screw pack
- 4 x foot pad
- 4 x HDD anti-vibration damper
- 1 x wall mount bracket
- 1 x remote power switch

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

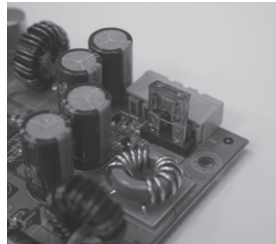
Expansion & Installation



Power Protection

DC Version

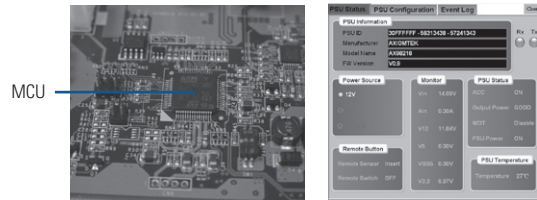
ISO7637 pulse1/2a/3a/3b/4/5a
 OVP (over voltage protection)
 UVP (under voltage protection)
 OCP (over current protection)
 OTP (over temperature protection)
 OPP (over power protection)
 QLD (over load protection)
 SCP (short circuit protection)
 Reverse protection
 Battery-low protection



Programmable Setting

Built-in MCU micro processor for power control
 Ready tool for below function modification:

- On-line monitoring of power & temperature status
- Ignition-control counter setting
- Thermal protection setting
- Battery-low protection setting
- Event log file for easy debugging



Dimensions

