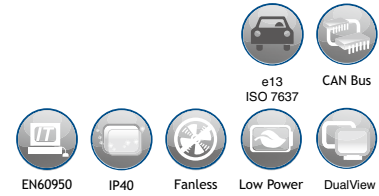
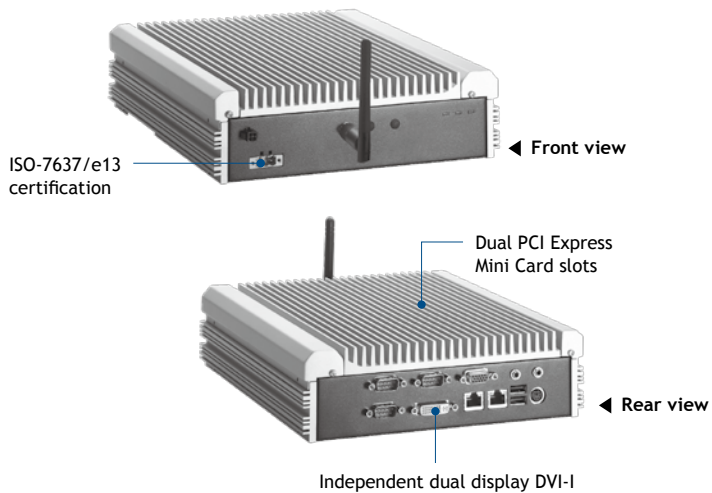


# eBOX310-830-FL

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



## 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 SODIMM max. up to 2 GB
- Supports 2 PCI Express Mini Cards
- One 2.5" SATA drive bay and CompactFlash™ slot
- Optional CAN bus support

## Specifications

Standard Color	Silver-Black	System Indicator	1 x green LED for system power-on 1 x orange LED for HDD active 1 x green LED for Power status
Construction	Aluminum extrusion and heavy-duty steel, IP40	Power Supply	DC12V mode: Operating voltage: DC9 - 16V Start voltage: DC13V or higher DC24V mode: Operating voltage: DC18 - 32V Start voltage: DC26V or higher
CPU	Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo/ Celeron® M up to 2.33 GHz processor	Operating Temperature	-10° C - +50° C (32° F - 122° F) (with W.T. HDD)
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB	Storage Temperature	-20° C - +80° C (-4° F - +176° F)
Chipset	Intel® 945GME + ICH7M	Humidity	10% - 90% , non-condensing
BIOS	Phoenix-Award 4M Git with RPL/PXE boot ROM	Vibration Endurance	2 Grms with HDD (5 - 500 Hz, X, Y, Z directions)
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 V <sub>oc</sub> power input connector	Dimensions	224.1 mm (8.82") (W) x 250 mm (9.84") (D) x 66.5 mm (2.62") (H)
Watchdog Timer	255 levels, 1 - 255 sec.	Weight (net/gross)	3 kg (6.61 lb) /3.8 kg (8.37 lb)
Storage	1 x 2.5" SATA HDD drive bay 1 x CompactFlash™	Certification	CE, e13, ISO-7637
Expansion Interface	2 x PCI Express Mini Card	EOS Support	XPE, WinCE, Linux

\* XPE: Windows® XP Embedded

## 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 SODIMM	256 MB - 2 GB
CompactFlash™	256 MB or above
Wifi module	849WM520100E
Wifi+Bluetooth	82231560120E
3G module	826K3101010E

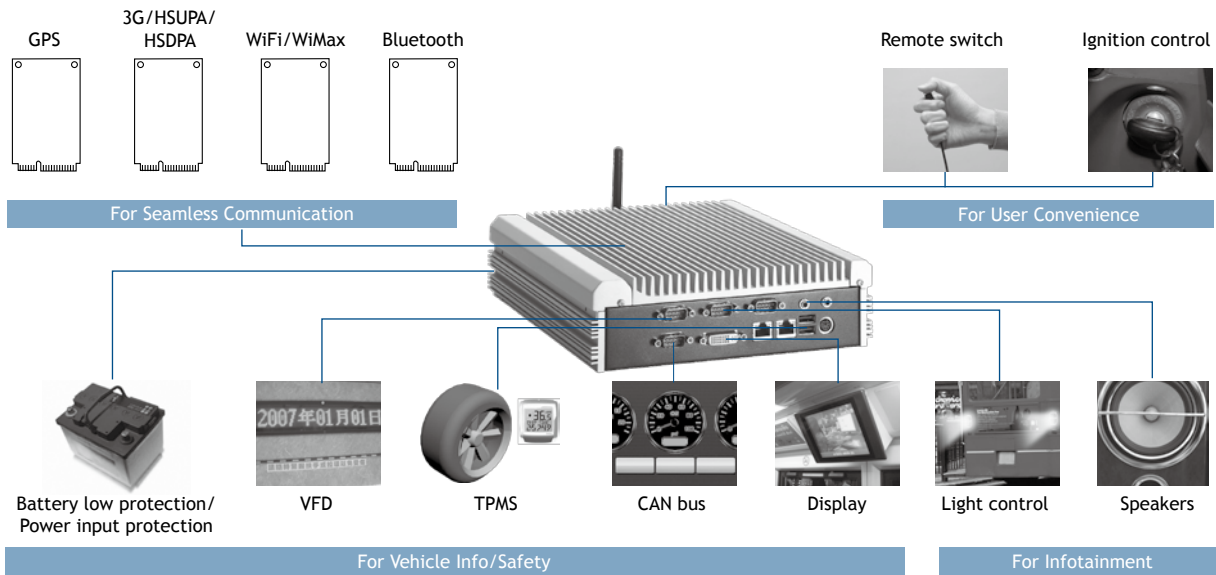
GPS module	826K3101030E
Graphic accelerator codec	849XM100000E

\*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

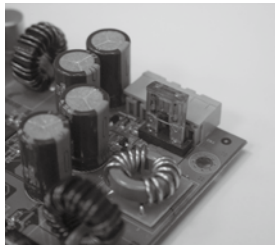
## Expansion & Installation



## 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)
- OLD (over load protection)
- SCP (short circuit protection)
- Reverse protection
- Battery-low protection

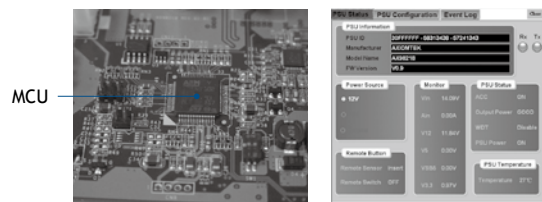


## Programmable Setting

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

