QBOX-3100

Fanless Box Pc for In-Vehicle Computer
with Isolated 9~36V DC Input

- Intel® D525 Dual Core 1.8 GHz processor
- Wireless communication support 3.5G, WLAN, GPS, GSM/GPRS, Bluetooth
- 9V - 36V DC Power Input with 1500VDC Isolation
- Automatics Recovery Short Circuit Protection
- Smarter Vehicle Power Ignition for variety vehicle
- Support 2 x RS-232 with 5V/12V output
- Support 2 x DI / 2 x DO with Relay 12V / 100mA

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Product Overview

The QBOX-3100 is a fanless In-Vehicle Box PC which is ideal for transportation applications. This embedded hardware platform is designed with Intel® D525 Dual Core 1.8GHz Processor which provides with excellent performance. The system is supported with Intel® ICH8-M chipset, and DDR3 667 MHz So-DIMM up to 2GB. Featured are an 2.5" SATA HDD or SSD, 2 x GbE, 4 x USB 2.0, 2 x DB-15, 4 x COMs, Audio ports, DIO, Mini-PCIe and PCI-104 expansion slots for wireless applications. The QBOX-3100 provides high reliability rugged case not only for great protection from EMI, cold and heat, but also integrated with active cooling design for harsh environment operation which is best for transportation applications.

Technical Information

Construction	
	Aluminum Alloy
CPU	
	Intel® D525 Dual Core 1.8 GHz Processor
Chipset	
	ICH8-M
Memory	
	1 x DDR 3 667 MHz SO-DIMM up to 2GB
Graphics	
	NVIDA GeForce GT218-ILV onboard ATOM D525 integrated graphics(Optional)
LAN	
	2 x Realtek RTL811C Gb/s Ethernet Controllers on board support WOL, PXE
Watchdog	
	1 ~ 255 Level Reset
Storage	
	1 x 2.5" drive bay for SATA Type Hard Disk Drive/SSD
Graphics	
	NVIDIA GeForce: 512MB DDR3 memory onboard for GT218-ILV GT218-ILV: One 2 x 20 –pins LVDS connector onboard for 24 bits Dual , Channel LVDS supported , resolution up to 1920 x 1200. Two DB-15 VGA connectors on rear I/O, support Dual independent display, resolution up to 2045 x 1560 @ 85 Hz. One HDMI connector on front I/O D525 integrated: one 2 x 8 pins pitch 2.0 mm lockable box header for VGA
I/O	
COM	4 x RS-232
USB	4 x USB 2.0 Ports
LAN	2 x RJ-45 for GbE
Video	2 x DB-15 for VGA Output
DIO	Mic-in/Line-out (Realtek ALC 662 HD Codec)
Audio	2 x Mini-card slot
Expansion	2 x Mini-PCIe sockets supported, 1 x Mini-PCIe socket for WWAN module with SIM card, 1 x PCI-104 slot supported

Power Requirement	
	Power Input: 9V-36V DC Power Input Power Protection: Automatics Recovery Short Circuit Protection Power Management: Vehicle Power Ignition for Variety Vehicles Backup Battery: Internal Battery Kit for 10 Min. Operating (Optional)
Environment	
	Operating Temp: -20°C to 60°C (SSD), ambient w/air Relative Humidity: 10~90% (non-condensing) Vibration (Random): 2.5g@5~500 Hz with SSD Vibration Operating: MIL-STD-810F, Method 514.5, Category 20, Ground-Vehicle-Highway Truck Storage: MIL-STD-810F, Method 514.5, Cat. 24, Integrity Test Shock: Operatiing: MIL-STD-810F, Method 516.5, Procedure I, Trucks and semi-trailers = 40G (11ms), Non-Operating 80G with SSD Crash harazd: MIL-STD-810F, Method 516.5, Procedure V, Ground equipment = 100g
Dimensions	
	235 x 155 x 50 mm (LxWxH)
Weight	
	1.5 kg (barebone)
Mounting	
	Wall mount, VESA mount

5F, No. 415, Ti-Ding Blvd. Sec. 2, NeiHu District, Taipei, Taiwan 114
T +886-2-2799-2789 F +886-2-2799-7399 sales@quanmax.com
www.quanmax.com

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