tBOX311-820-FL

Fanless Embedded System with Intel® Atom™ Processor Z520PT 1.33 GHz for Vehicle PC





Specifications

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Standard Color	Silver-Black		
Construction	Aluminum extrusion and heavy-duty steel		
CPU	Intel® Atom™ processor Z520PT 1.33 GHz onboard		
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB		
Chipset	Intel® US15WPT		
BIOS	AMI		
System I/O Outlet	Rear Side	2 x GbE LAN 1 x isolated RS-232/422/485 1 x isolated DI/D0 (4-in/4-out) 1 isolated CAN Bus (optional RS-232/422/485) 2 x USB 2.0 2 x audio (mic-in/line-out) 2 x VGA 1 x VDC power input 1 x 12V/24V DC input switch 3 x antenna opening	
	Front Side	2 x USB 2.0 1 x reset switch 1 x 2.5" SATA drive trays	
Watchdog Timer	255 levels, 0	~ 255 sec./min.	
Storage	1 x 2.5" SATA HDD drive bay 1 x CompactFlash™		
Expansion Interface	3 x PCI Express Mini Card 1 x SIM card slot		
System Indicator	1 x green LED for system power-on 1 x red LED for HDD active 1 x green LED for WWAN 1 x programmable LED (P1~P4)		
Power Supply	DC12V mode: Operating voltage: DC9 ~ 16V Start voltage: DC12V or higher DC24V mode: Operating voltage: DC18 ~ 32V Start voltage: DC24V or higher		
Power Consumption	1.7A @ 12V 0.9A @ 24V		
Operating Temperature	-40°C ~ +65°C (-40°F ~ +149°F) (with 1.33 GHz CPU, W.T. HDD		
Storage Temperature	-40°C ~ +80°C (-4°F ~ +176°F)		
Humidity	10% ~ 90% , non-condensing		
Vibration Endurance	2 Grms with CF (5-500Hz, X, Y, Z directions)		

Features

- eMark, ISO7637 certificates
- Intel® Atom™ processor Z520PT 1.33 GHz
- Intel® US15WPT
- Fanless with operating temperature range of -40°C ~ +65°C
- 1 isolated RS-232/422/485 and 1 isolated CAN bus (optional for RS-232/422/485)
- High performance DDR2-667 SODIMM max. up to 2 GB
- One 2.5" swappable SATA drive bay and 1 CompactFlash™ slot
- 3 internal PCI Express Mini Card slots with 1 SIM slot



Dimensions	244 mm (9.6") (W) x 185.4 mm (7.3") (D) x 70.4 mm (2.77") (H)	
Weight (net/gross)	2.5 kg (5.5 lb)/3.5 kg (7.7 lb)	
Certificate	CE, e13, ISO7637, EN60950 compliance	
EOS Support	XPE, WinCE, Linux	

Ordering Information

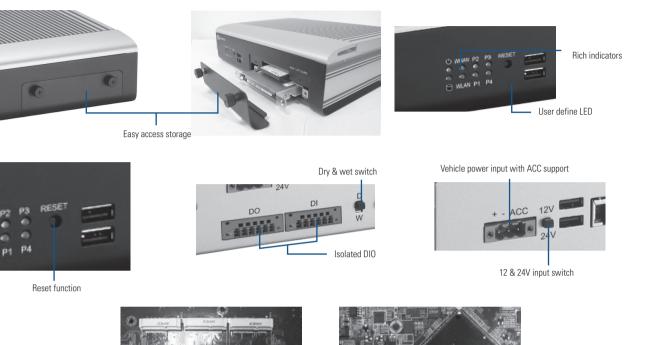
Graphic accelerator codec

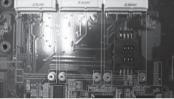
Standard			
tB0X311-820-FL1.33G- CAN	Fanless vehicle embedded system with Intel® Atom™ Z520PT 1.33 GHz processor, 2 VGA, CFast & HDD support, 2 GbE LAN, 1 RS-232/422/485, 1 CAN and 4 USB		
tB0X311-820-FL1.33G- COM	Fanless vehicle embedded system with Intel® Atom™ Z520PT 1.33 GHz processor, 2 VGA, CFast & HDD support, 2 GbE LAN, 2 RS-232/422/485 and 4 USB		
Optional			
2.5" SATA HDD	40 GB or above		
DDR2 SODIMM	512 MB or above		
CompactFlash™	1 GB or above		
3G module			
Wi-Fi module			
Wi-Fi Bluetooth			
GPS module			

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

* All specifications and photos are subject to change without notice

Expansion & Installation





3 x Mini Card with SIM



Intel® Z520PT with US15WPT supports wide temperature of -40°C ~ +70°C

Power Protection

DC Version

IS07637 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

1 x driver CD 1 x screw pack

Ordering Information

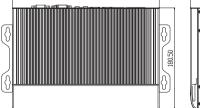
1 x quick manual

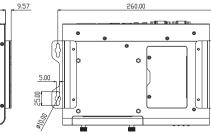
- 4 x foot pad 4 x HDD anti-vibration damper
- 1 x wallmount Kit

Dimensions

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Power Supplies



Peripherals & Accessories



Overview

2 Embedded Systems for Transportation

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Embedded Controllers

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Industrial Firewall

Digital Signage Solutions

0

Embedded MicroBoxes

Industrial Barebone Systems

Chassis

С