

Vehicle Mounted Industrial Computer Atom D525 Model

Front view



Rear view

STC-B318E

RoHS

Applications

- Surveillance camera display terminal
- Digital signage contents output controls (inside trains & buses)
- Vibration tests/measurements (inside trains & buses)
- Destination display control (inside trains & buses)
- Satellite broadcast van communication control

Overview

The Vehicle Mounted Industrial Computer Atom D525 model features energy efficient and high-speed processing with its dual core processor.

Its I/O interface is customizable from various PCI Express boards. The categories of the board include digital I/O, analog I/O, GP-IB, counter, motion, frame grabber, and so on.

Features

- [Intel Atom D525 \(1.8 GHz\)](#)
Achieves low power consumption.
- [Isolated digital general purpose input/output pins](#)
Connect easily to warning devices such as revolving warning lights and buzzers.
- [Wide range DC power input](#)
Supports wide range DC power input from +6.5 Vdc to +36 Vdc (maximum rating)/ from +7 Vdc to +27 Vdc (continuous operation).
- [Quick boot](#)
Boots the operating system with write filter and Hibernate Once Resume Many (HORM) when HORM function is enabled. (BIOS boot excluded)
- [Low maintenance](#)
Due to its fanless design and 10-year maintenance-free battery used for calendar clock, no worries about the lifetime of the fan or battery.

Specifications

Model	Standard Model			
Type	STC-B318E	STC-B418E	STC-B518E	
CPU	Processor	Intel Atom Processor D525 1.8 GHz		
	CPU Fan	No		
Chip Set	Intel ICH8M			
Main Memory	1GB(DDR3)			
BIOS/Loader	Phoenix SecureCore BIOS			
Calendar Clock Backup Battery	Large capacity battery (typical life time: 10 years) BR-1/2AA (Panasonic Corporation)			
OS	Supported OS	Windows Embedded Standard 2009 (32 bits) Interface Linux System (32 bits)		
	Operation Confirmed OS	Android, MeeGo		
Storage	Boot Device	CFlash 4 GB	HDD 320 GB (2.5 inches) SSD 8 GB (2.5 inches)	
	Auxiliary Device	-		
Graphics	Controller	Built into CPU		
	Resolution	2048x1536, 1920x1200, 1920x1080, 1600x1200, 1680x1050, 1400x1050, 1280x1024, 1280x768, 1024x768, 800x600 * Resolutions may vary depending on OS or graphic driver.		
Interfaces	Display	Analog RGB x 1 (15-pin D-sub connector)		
	Audio	Line output: stereo x 1 (stereo Φ 3.5 mini jack), Microphone input x 1 (stereo Φ 3.5 mini jack) HD Audio codecs Line output: full scale output level 1.2 Vrms (typ.), Mic input: full scale input level 1.6 Vrms (typ.)		
	PS/2	1 port (6-pin round mini DIN connector) *Mouse and keyboard can share a connector using an optional splitter cable.		
	LAN	2 port (RJ-45 connector), 1000BASE-T, Wake On LAN compatible		
	USB	5 ports (USB Rev.2.0 Series A connector)		
	RS-232C	2 ports (9-pin D-sub connector) 16550 compatible, transfer rate: 115.2 kbps (max.)		
	External Input/output	1 port 4-pin connector (e-CON)(power on/off x 1, RAS output x 1)		
	Switch	Power switch		
	RAS	Watchdog Timer	Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption	
		Hardware Monitoring	Board temperature/CPU temperature/ power supply voltage	
RAS Output		1 port		
Chassis Cooling FAN	No			
Power Supply	Input Voltage	Typical : +7 Vdc to +27 Vdc (Continuous operation) Maximum : +6.5 Vdc to +36 Vdc		
	Power Consumption	14 W	16.7 W 15 W	
Security Slot	Yes			
Dimensions (W x D x H)	210 x 150 x 29 [mm]			
Mounting Orientation	Upright, horizontal			
Weight	T.B.D			
Operating Temperature	Temperature: 0 degrees C to +50 degrees C (STC-B418E: 5degrees C to +50 degrees C) Humidity: 10 % to 90 % (non-condensing)			
Storage Temperature/ Humidity	Temperature: -40 degrees C to 80 degrees C Humidity: 10 % to 90 % (non-condensing)			
Dust	Typical office environment			
Corrosive Gas	None			
Noise Immunity	Line noise: 1kVP-P 50ns to 1 μ s pulse Static electricity: in contact: +/-6 kV, in the air: +/-8 kV radiated electromagnetic field: 10 V/m Conduction: 10 V/m FTB: signal: 1 kV, power supply: 2 kV			
Vibration Resistance	Vibration resistance: 5.0 G (max.) (STC-B418E: 1 G (max.)) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude: 0.35 mm (half amplitude) (STC-B418E: 0.075 mm(half amplitude)) - Acceleration amplitude: 49 m/s ² (5 G) (STC-B418E: 9.8 m/s ² (1 G)) - Duration: 75 minutes			
Shock Resistance	Shock resistance: 100 G (max.) (STC-B418E: 50 G (max.)) - Duration of activity: 6 ms (not operating) (STC-B418E: 11 ms (not operating))			



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