

Energy Efficient Industrial Computer DVI Model (Atom Z530, Z510)
RoHS

Front view

Rear view
**STC-A016(S)E
STC-A011(S)E**

Energy Efficient Industrial Computer DVI Model	Intel Atom Processor Z530 1.6 GHz Intel Atom Processor Z510 1.1 GHz	Windows Embedded Standard 2009
Boot devices SSD 4 GB x 2	Main memory 1 GB	Low power consumption DC power input voltage: +7 Vdc to +27 Vdc
DVI-D x 1 LVDS x 1	LAN x 2 (1 Gbps) Serial port x 2	Small, silent, heat dissipation 167 (W) x 109 (D) x 29 (H) [mm]

Applications

- Production Line Operating Information Display
- Inspection, Test Results Information Collection System
- Airports Flight Status and Flight Information Display
- Train/Bus Stations Gate Control System
- Road/Air Noise Measurement System
- Temperature/Voltage Status Monitoring

Overview

The embedded computers are empowered by the Intel Atom Z530 or Z510 processor, and feature two serial ports, dual Gigabit LAN ports and four USB 2.0 ports.

The computers offer both Digital and LVDS outputs, making it perfect for digital display connections. The tiny yet powerful computers are perfect for industrial application that requires continuous 24/7 operation.

Features

- **Small Footprint**
 - Post Card Size, ultra thin: 167mm x 109 mm (6.6" x 4.3"), only 29 mm thick (1.1")
 - Ideal to install in narrow, limited and constraint space such as automobile dashboard
- **Dual Displays**
 - DVI-D interface; HDMI connector for connecting LCD TVs
 - LVDS interface for connecting digital display devices
- **Rugged Design**
 - 5 G Anti-Vibration, 100 G Anti-Shock protection
 - Can operate in very harsh environment
- **Wide Range DC Power Input**
 - DC + 7 V to +27 V for maximum rating
 - DC + 12 V to + 24 V for continuous operation
- **Low Power Consumption**
 - low heat dissipation
 - Low Power Consumption; Max 11.0 W
 - SSD directly soldered on the board reduces power consumption
- **Memory**
 - Full 1 GB Memory
 - System memory soldered directly on the board for better anti-shock/anti-vibration.
- **Operating Systems**
 - Windows Embedded Standard 2009
- **No Moving Parts**
 - Makes for a quiet operation
 - Less moving parts means less maintenance costs
- **External Storage Device**
 - SSD 4 GB

Specifications

		STC-A016(S)E	STC-A011(S)E
CPU	Processor	Intel Atom Processor Z530	Intel Atom Processor Z510
	Frequency	1.6 GHz	1.1 GHz
Type	Energy Efficient Industrial Computer DVI Model		
Chip Set	Intel US15W		
BIOS/Loader	Phoenix SecureCore BIOS		
Main Memory	1 GB: DDR2-SDRAM DDR2-533 (without memory socket) (Micron)		1 GB: DDR2-SDRAM DDR2-400 (without memory socket) (Micron)
Graphics	Controller	Built into Intel US15W	
	Video Memory	Shared with main memory	
	Resolution	1920 x 1080 (max.) * Maximum resolutions may vary depending on monitor's resolution.	
OS	Windows Embedded Standard 2009		
Boot Device	SSD 4 GB		
Auxiliary Device	SSD 4 GB	-	
Data Space of Boot Drive	1.5 GB		
Switch	Power switch		
LED	Power indicator LED x 1, disk access LED x 1		
Interfaces	USB	USB Rev.2.0 Series A connector x 4, miniAB connector x 1 The maximum supply current is 1 A per port. Total amount of all ports is 2 A.	
	LAN	RJ-45 connector x 2 WG 82574IT controller (Intel) 1000BASE-T, Wake On LAN, Jumbo Frame compatible, Teaming compatible	
	Audio	No	
	Display	DVI-D (with HDMI connector) x 1 LCD IF (24-bit LVDS) 26-pin half-pitch connector (10226-1210PE) x 1	
	Keyboard	PS/2 compatible 6-pin round DIN connector x 1	
	Mouse	Sharing a connector with keyboard (Prepare an optional splitter cable.)	
	Serial Port	16550 compatible 9-pin D-sub connector x 2	
	External I/O Connector	4-pin connector (Power On/Off)	
Dimensions (W x D x H)	167 x 109 x 29 [mm]		
Input Voltage	Input voltage rating: +12 Vdc to +24 Vdc Absolute maximum rating: +7 Vdc to +27 Vdc DC power cable attached (0.5 m, one-end cable)		
Allowable Power	7.5 W (typ.), 11.0 W (max.)		
Chassis Cooling Fan	No		
Calendar Clock Backup Battery	Large capacity battery (typical life time: 10 years) BR-1/2AA (Panasonic Corporation)		
Hardware Monitoring	CPU temperature/board temperature/power supply voltage		
Watchdog Timer	Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption.		
Environment Resistance	Vibration resistance: 5.0 G (max.) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude: 0.35 mm (half amplitude) - Acceleration amplitude: 49 m/s ² (5 G) - Duration: 75 minutes Shock resistance: 100 G (max.) - Duration of activity: 6 ms Noise immunity: 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		
Operating Conditions	Temperature: 0 degrees C to +50 degrees C Humidity: 10% to 90% (non condensing)		
Weight	735 g	705 g	
MTBF	145860 hours	146604 hours	

AC Power Type



The DC jack of the computer can be replaced to an AC jack.

Part No.: STC-A016A(S)E, STC-011A(S)E.

The input voltage of each model differs as follows.

AC Jack Type	DC Jack Type
STC-A016A(S)E, STC-A011A(S)E	STC-A016(S), STC-011(S)E
Typical: +12 Vdc	Typical : +12 Vdc to +24 Vdc Maximum : + 7Vdc to +27 Vdc

Board Type



The Board Type is also available.
It is easier to integrate to your device.

Part No: SBC-A016(S)E, SBC-A011(S)E



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