

Energy Efficient Industrial Computer FBWF Model (Atom Z530)

RoHS



Front view



Rear view

STC-A116(S)AE

Energy Efficient Industrial Computer FBWF Model	Intel Atom Processor Z530 1.6 GHz	Windows Embedded Standard 2009
Boot devices SSD 4 GB x 2	Main memory 1 GB	Low power consumption Input voltage: +7 Vdc to +27 Vdc
Analog RGB x 1	LAN x 2, Serial port x 2, Audio capability	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 FBWF Analog RGB Model is empowered by the Intel Atom Z530 1.6 GHz processor. Using FBWF (File-Based Write Filter), the computer reduces memory consumption. The low power consumption, FBWF model is perfect for continuous 24/7 operation.

Features

- **Intel Atom Z530 (1.6 GHz)**
 - Achieves low power consumption and small foot print
- **Analog RGB Displays**
 - Analog RGB interface
- **Multiple Interfaces**
 - USB2.0 ports: 4
 - USB client port for SSD: 1
 - Gigabit LAN ports: 2
 - RS-232C ports: 2
- **Small Form Factor with Rugged Design**
 - Highly efficient heat dissipation with a unique fanless design
 - Ultra thin and small factors for trouble-free site installation
 - 5 G anti-vibration and 100 G anti-shock for reliable operation
- **Wide Range DC Input**
 - +7 V to +27 V continuous operations suitable for vehicles with fluctuating DC power source
- **Low Power Consumption**
 - Less than 12 W power consumption for cost-effective industrial applications
- **Memory**
 - Full 1 GB Memory
 - Memory/SSD soldered directly on the board reduces power consumption.
- **Operating Systems**
 - Windows Embedded Standard 2009
- **No Moving Parts**
 - Makes for a quiet operation
- **External Storage Device**
 - SSD 4 GB

Specifications

Model	STC-A116(S)AE	
CPU	Processor	Intel Atom Processor Z530
	Frequency	1.6 GHz
Type	Energy Efficient Industrial Computer FBWF Analog RGB Model	
Chip Set	Intel US15W	
BIOS/Loader	Phoenix SecureCore BIOS	
Main Memory	1 GB : DDR2-SDRAM DDR2-533 (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	
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 PCI Express LAN controller (Intel) 1000BASE-T, Teaming compatible
	Audio	Realtek ALC889 Line output x 1 (stereo ϕ 3.5 mini jack) (impedance: 100 Ω) Microphone input x 1 (stereo Φ 3.5 mini jack) (impedance: 12 k Ω to 16 k Ω (min.))
	Display	Analog RGB x 1 15-pin D-sub connector
	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 x 1, normally-open relay contact RAS output x 1)
Dimensions (W x D x H)	167 x 109 x 29 [mm]	
Input Voltage	Typical : +7 Vdc to +27 Vdc Maximum : +6.5 Vdc to +36 Vdc DC cable included (0.5 m, one end cable)	
Allowable Power	8 W (min.), 12.0 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	700 g	
MTBF	115331 hours	

AC Power Type



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

Part No.: STC-A116A(S)AE

The input voltage of each model differs as follows;

AC Jack Type	DC Jack Type
STC-A116A(S)AE	STC-A116(S)AE
Typical: +12 Vdc	Typical : +7 Vdc to +27 Vdc Maximum : +6.5 Vdc to +36 Vdc



Interface Amita Solutions, Inc.

Phone: (+1) 408-879-2387

Fax: (+1) 408-879-6205

E-mail: sales@amitasol.com

Website: <http://www.interface-amita.com>

All product specifications are subject to change without prior notice.

© 2014 Interface Corporation

PLST-14-000326-01