

Energy Efficient Industrial Computer Atom N2800 Model



Front view



Rear view

RoHS

LTC-B119(S)E

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 LTC Series ultra-thin, tiny and compact size computer is empowered by the Intel Atom N2800 1.86GHz processor, and features fan less, disk less, and low power consumption. The optional battery module (part no. JPS-BUSTC) can be used as a counter measure against a sudden power failure.

Features

- **Atom N2800**
 - Single Core or Dual Core CPU is selectable
 - Dual Core CPU Model LTC-B119E achieves higher performance
 - All applications are compatible with single core CPU
- **Operating System**
 - Windows Embedded Standard 2009
 - Windows Embedded Standard 7
 - Interface Linux System
- **Small Form Factor with Rugged Design**
 - Ultra compact form factor for trouble-free site installation
 - 167(W) x 109(D) x 29(H) (mm)
- **Low Heat Dissipation and Power Consumption**
 - Achieves higher computing performance, low heat dissipation, and low power consumption
- **ROM Software**
 - Software write protection
 - Hardware write protection switch provided
 - Countermeasures for an unexpected sudden power failure.
- **1 GB Memory**
 - Memory is soldered directly on the board for better anti-shock/anti-vibration
- **SSD**
 - SSD is soldered directly on the board for anti-shock/anti-vibration, improves power consumption
 - 5 G vibration and 100 G shock resistances for reliable operation under harsh environments
- **Zero Spindle**
 - Fan less/disk less for quiet operation
 - Maintenance cost reduction with no-moving parts
- **I/O Connector**
 - Power control, RAS output connector is loaded
- **Wide Range Power Input**
 - Supports +7 Vdc to +27 Vdc input for continuous operation
 - Applicable for various environments including vehicle and other applications
- **Multiple Interfaces**
 - Four USB 2.0
 - Two Gigabit LAN ports
 - Two RS-232 ports
- **Display Interface**
 - Analog RGB or DVI-D is selectable
- **Audio I/O**
 - Line output and microphone input

Specifications

Type	LTC-B019(S)E	LTC-B119(S)E	LTC-A119(S)E
CPU	Intel Atom N 2800 1.86GHz (Dual Core)		Intel Atom N 2800 1.86GHz (Single core operation)
Chipset	Intel NM10		
BIOS/Loader	Phoenix SecureCore Tiano BIOS		
Main Memory	1 GB: DDR2-SDRAM 1066 [Micron]		
Graphics	Controller	Built into CPU	
	Video Memory	Shared with main memory	
	Resolution	1920 x 1080 (max.) * Maximum resolutions may vary depending on monitor's resolution.	
Operating System	Windows Embedded Standard 2009 (32 bits)		
Boot Device	SSD 8 GB		
Auxiliary Device	SSD 4 GB		
Data Space of Boot Drive	5.2 GB		
Switch	Power switch		
LED	Power indicator LED x 1, disk access LED x 1		
Interface	USB	USB Rev.2.0 compatible Series A connector x 4 The maximum supply current is 1 A per port. Total amount of all ports is 1 A.	
	LAN	2 ports (RJ-45 connector), Intel WG 82574IT controller 1000BASE-T, Wake On LAN, Jumbo Frame compatible, Teaming compatible	
	Audio	Realtek ALC898 Line output x 1 (Φ 3.5 stereo mini jack) (Impedance:75 Ω), Microphone input x 1 (Φ 3.5 stereo mini jack) (Impedance: 16 kΩ (typ.))	
	Display	DVI-D 1 port	Analog RGB 1 port (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.)	
	RS-232C	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 x1 channel)	
Dimensions (W x D x H)	167 x 109 x 29 [mm]		
Input Voltage	Input voltage rating: +7 Vdc to +27 Vdc Absolute maximum rating: +6 Vdc to +36 Vdc DC power cable attached (0.5 m, one-end cable)		
UPS	No		
Allowable Power	11.8 W (typ.), 14.5 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: 20% to 90% (non condensing)		
Weight	745 g		
MTBF	135826 hours		



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