

LEC-30 | 3T

Wide Temperature Fanless Industrial DIN Rail Box IPC with Intel® Atom™ D525 CPU



Overview

Featuring Intel® Atom™ D525 CPU and support for a wide operating temperature range, the LEC-3013T is a DIN rail mounted industrial communications platform for the power and energy sector. This rugged industrial box PC features a new chassis that allows for normal operation over a wide range of temperatures, from -40 to 70 degree Celsius. The LEC-3013T is available in three SKUs, each with different I/O options, but all are equipped with not only 15kV ESD/surge protection for the serial COM ports but also 1.5 kV magnetic isolation protection for the Ethernet ports.

Features

Fanless, Compact and Robust DIN Rail Design

The lifespan of this IPC has been extended by removing the most easily damaged component, the fan. Its compact and robust system design with DIN rail and wall mount options renders your application more reliable.

Wide Temperature Range

This product is ruggedized to support a wider temperature range from -40 to 70°C. Outfitted with industrial components (CF, memory) this platform can thrive in harsh conditions.

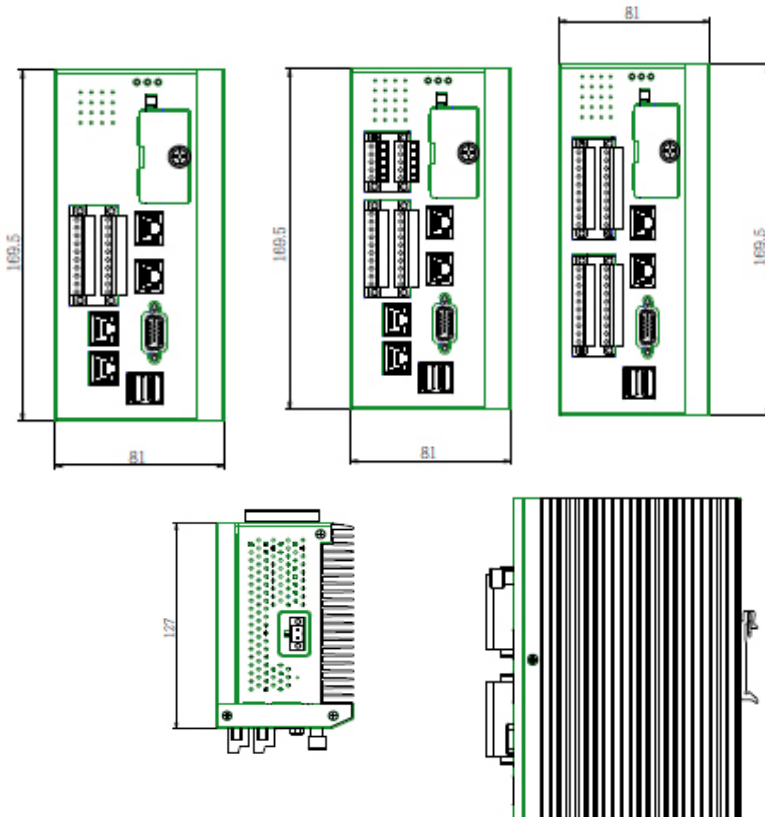
Flexible I/O Design

LEC-3013T provides different models with various I/O options, including 4, 6 or 8 serial COM ports and 2 or 4 GbE LAN ports.

ESD and Magnetic Isolation Protections

LEC-3013T is equipped with not only 15kV ESD/surge protection for the serial COM ports but also 1.5 kV magnetic isolation protection for the Ethernet ports.

Dimensions 81 x 169.5 x 127 mm



Preliminary Specifications

Processor Options		Intel® Atom™ D525 (1.8 GHz)	
Chipset		Intel ICH8M	
BIOS		AMI 8Mbit SPI Flash ROM BIOS	
System Memory	Sockets	1 x 204-pin DDR3 SODIMM socket	
	Technology	DDR3 SODIMM x 1	
	Maximum Capacity	4 GB	
USB		USB 2.0 compliant hosts x 2, Type A connector, Internal pin-connector x 2	
Expansion Bus		None	
OS Support		Window 7, XP Embedded, Linux	
Storage	NAND Flash	Optional	
	HDD Support	1 x 2.5" HDD/SSD drive bay	
	Expansion	CF socket Type I/II x 1, SATA x 1	
Networking	LAN	2 or 4 x 10/100/1000 Mbps, Autosensing, RJ-45	
	Controller	Intel 82574L x 2, Intel 82583v x 2	
	Magnetic Isolation Protection	1.5 KV built-in	
Serial Interface	Serial Standard	-2 x 2 x 10pin terminal block for 8 x RS-232/422/485 -2 x 10pin + 2 x 5pin terminal block for 6 x RS232/422/485 -2 x 10pin terminal block for 4 x RS-232/422/485	
	ESD Protection	15 KV for all signals	
Serial Signals	RS-232	RTS, Rx, Tx, CTS, GND	
	RS-422	TxD+, TxD-, RxD-, RxD+, GND	
	RS-485	Data+, Data-, GND	
	Baudrate	Supports 50 bps to 115.2 kbps	
Display	Graphics Controller	Intel GMA 3150	
	Display Interface	DB15 x 1 for VGA (2048 x 1536)	
LEDs		Power, Storage, Run (user defined), 2/4 x LAN, 4/6/8 x Rx, 4/6/8 x Tx	
Physical Characteristics	Housing	(SECC) Galvanized Steel + Aluminium	
	Weight	1.8 kg	
	Dimensions (W x H x D)	81 x 169.5 x 127 mm	
		Mounting Options	DIN rail and wall mount
Environment	Operating Temperature	-40~70°C/-40~158°F	
	Storage Temperature	-40~80°C	
	Ambient Relative Humidity	5 to 95% (non-condensing)	
Power	Input Voltage	+12~36 V DC	
	Power Consumption	15 W	
	Connector	2-pin terminal block	
Standards and Regulation	EMC	CE/FCC	
	Green product	RoHS	
Reliability	Alter tool	Built-in buzzer and RTC (real-time clock) with battery lithium backup	
	Automatic Reboot Trigger	Watchdog Timer 1~255 level time interval system reset, software programmable	
	Warranty	2 years	
	MTBF	TBD	

Ordering Information

LEC-3013T-A4	Wide Temperature Fanless Industrial PC with Intel® Atom™ D525 CPU, 4 x GbE, 4 x COM ports
LEC-3013T-A6	Wide Temperature Fanless Industrial PC with Intel® Atom™ D525 CPU, 4 x GbE, 6 x COM ports
LEC-3013T-A8	Wide Temperature Fanless Industrial PC with Intel® Atom™ D525 CPU, 2 x GbE, 8 x COM ports