

# 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.

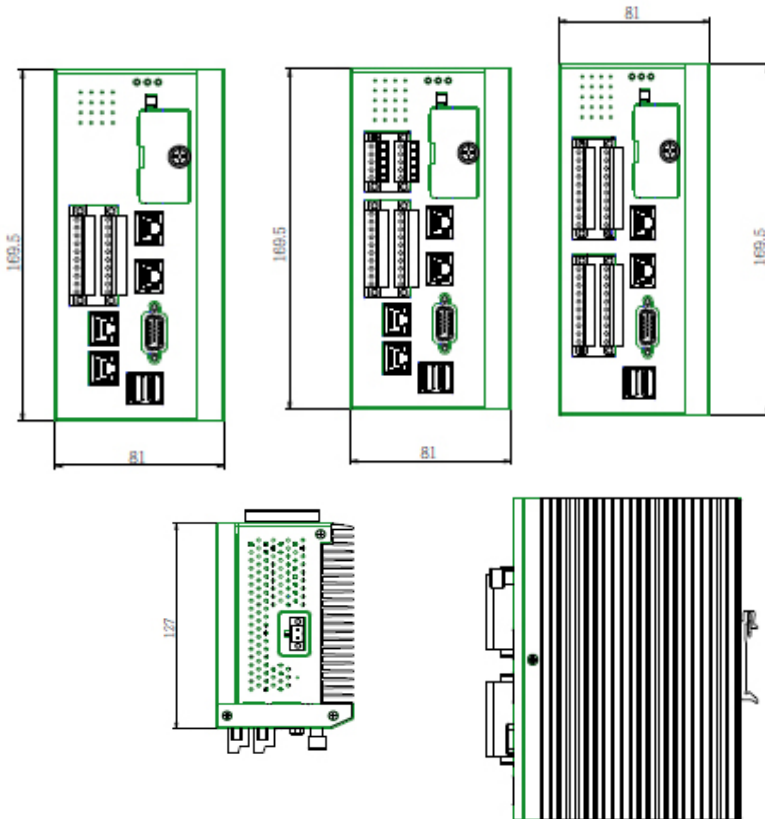
### Flexible I/O Design

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

<b>Processor Options</b>		Intel® Atom™ D525 (1.8 GHz)
<b>Chipset</b>		Intel ICH8M
<b>BIOS</b>		AMI 8Mbit SPI Flash ROM BIOS
<b>System Memory</b>	Sockets	1 x 204-pin DDR3 SODIMM socket
	Technology	DDR3 SODIMM x 1
	Maximum Capacity	4 GB
<b>USB</b>		USB 2.0 compliant hosts x 2, Type A connector, Internal pin-connector x 2
<b>Expansion Bus</b>		None
<b>OS Support</b>		Window 7, XP Embedded, Linux
<b>Storage</b>	NAND Flash	Optional
	HDD Support	1 x 2.5" HDD/SSD drive bay
	Expansion	CF socket Type I/II x 1, SATA x 1
<b>Networking</b>	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
<b>Serial Interface</b>	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
<b>Serial Signals</b>	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
<b>Display</b>	Graphics Controller	Intel GMA 3150
	Display Interface	DB15 x 1 for VGA (2048 x 1536)
<b>LEDs</b>		Power, Storage, Run (user defined), 2/4 x LAN, 4/6/8 x Rx, 4/6/8 x Tx
<b>Physical Characteristics</b>	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
<b>Environment</b>	Operating Temperature	-40~70°C/-40~158°F
	Storage Temperature	-40~80°C
	Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Power</b>	Input Voltage	+12~36 V DC
	Power Consumption	15 W
	Connector	2-pin terminal block
<b>Standards and Regulation</b>	EMC	CE/FCC
	Green product	RoHS
<b>Reliability</b>	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

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