

# LEC-3012A

Fanless Industrial DIN Rail Box IPC with Intel® Atom™ N455 CPU



## 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.

### Solid Expansion Capability

Complete storage expansion functionality, including CompactFlash, SSD and optional on-board NAND Flash.

### Flexible I/O Design

LEC-3012A series provides various I/O options such as 4, 6, or 8-port serial COM or 2, 4 Gigabit Ethernet ports models.

### Advanced Protection of Serial COM and Ethernet ports for harsh environments

LEC-3012A series have serial COM ports with advanced ESD protection and Ethernet ports with magnetic isolation protection to guarantee communication reliability in harsh industrial environments.

## Specifications

<b>Processor Options</b>		Intel® Atom™ N455 (1.66GHz)
<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	2 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 XP Embedded, Linux 2.6
<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
	Serial Signals	RS-232    RTS, Rx, Tx, CTS, GND RS-422    TxD+, TxD-, RxD-, RxD+, GND RS-485    Data+, Data-, GND
<b>Display</b>	Baudrate	Supports 50 bps to 115.2 kbps
	Graphics Controller	Intel GMA 3150
<b>LEDs</b>	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
<b>Physical Characteristics</b>	Housing	(SECC) Galvanized Steel + Aluminium
	Weight	1.7 kg
	Dimensions (W x H x D)	69 x 170 x 127 mm
<b>Environment</b>	Mounting Options	DIN rail and wall mount
	Operating Temperature	-20~55°C/-4~131°F
	Storage Temperature	-40~80°C
<b>Power</b>	Ambient Relative Humidity	5 to 95% (non-condensing)
	Input Voltage	+12~36 V DC
	Power Consumption	15 W
<b>Standards and Regulation</b>	Connector	2-pin terminal block
	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-3012-A4</b>	Fanless Industrial PC with Intel® Atom™ N455 CPU, 4 x GbE, 4 x COM ports
<b>LEC-3012-A6</b>	Fanless Industrial PC with Intel® Atom™ N455 CPU, 4 x GbE, 6 x COM ports
<b>LEC-3012-A8</b>	Fanless Industrial PC with Intel® Atom™ N455 CPU, 2 x GbE, 8 x COM ports