

LEC-6230

**IEC 61850-3 certified cyber security appliance
with flexible I/O interface**



Overview

LEC-6230 is a fanless 2U rackmount industrial cyber security appliance with Intel® “Ivy Bridge” i7-3517UE CPU. This rugged industrial firewall operates over a broad temperature range and is compliant with IEC 61850-3 and IEEE 1613 for power and energy applications. Other features include ESD/surge isolation protections, rich and expandable I/O modules for flexible Ethernet or serial connectivity, including optional 4+4 GbE LAN ports, 4+8 GbE LAN ports, 4 GbE LAN+2 GbE SFP ports and 4 GbE SFP ports.

Features

Rich, flexible and expandable I/O interface and CPU options

This product provides rich I/O interface, includes 4+4 GbE LAN ports, 2 isolated serial COM ports and 4 Fiber GbE SFP ports for ethernet or serial connectivity. The internal flexible expansion design is extremely suitable for customer’s requests. Moreover, cost effective and high-performance CPU options are available for critical applications.

Extreme operating temperature

This product is ruggedized to support a wider than usual range of temperatures. Outfitted with industrial components (SSD, CF, Memory) this appliance can thrive in harsh conditions.

Terminal block connections

This product features serial ports that utilize terminal blocks for its I/O ports. Terminal blocks can support a multitude of wiring, making these ports adaptable for different environments.

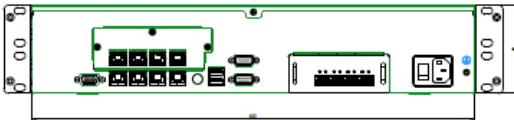
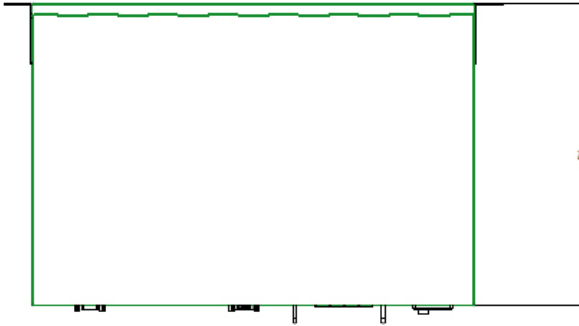
IEC 61850-3

LEC-6230 is IEC 61850-3 certified for electro-magnetic interference, operating temperatures and shock/vibration resistance, fulfilling hardware requirements demanded by power and energy related cyber security systems.

LAN Bypass

LEC-6230 supports optional 1 pair Gen.1 of Ethernet LAN Bypass function. Bypass ports allow users to have uninterrupted network traffic even if a single in-line appliance is shut down or is hung.

Dimensions: 440 x 88 x 270 mm (17.32" x 3.46" x 10.63")



Specifications

Processor Options		Intel® Core™ i7-3517UE
Chipset		Intel HM65
BIOS		AMI 8Mbit SPI Flash ROM BIOS
System Memory	Socket	1 x 204-pin SODIMM socket
	Technology	DDR3 1333/1600 MHz
	Max. Capacity	Up to 8 GB
USB		6 x USB 2.0 compliant hosts: 2 x External Type A connectors, 3 x Internal pin-connectors, 1x internal USB slot
Expansion Bus		PCIe expansion slot
OS Support		Window 7, WES7, Linux 2.6
Storage	NAND Flash	None
	HDD/SSD Support	1x 2.5" HDD/SSD drive bay
	Expansion	CF socket Type I/II x1, 2xSATA
Networking	LAN	8 x 10/100/1000 Mbps, autosensing,RJ-45 ports; 4 x GbE Fiber SFP ports
	Controller	8 x Intel 82583V, 1 x Intel I350
	Magnetic Isolation Protection	1.5 KV built-in
Serial Interface	Serial Standard	2 x DB9 ports with RS232/422/485 support
	ESD Protection	15 KV for all signals
	Isolation Protection	2 KV Digital Isolation
Serial Signals	RS-232	RTS,Rx,Tx,CTS,GND
	RS-422	TxD+,TxD-,RxD-,RxD+,GND
	RS-485	Data+,Data-,GND
	Baudrate	Support 50 bps (up to 115.2 Kbps)
Display	Graphics Controller	Intel® HD Graphics
	Display Interface	1 x DB15 VGA port
LEDs		Power, Storage, Run(User defined), 8 x ACT/Link, 10 x Rx/Tx , 8 x PIO
Physical Characteristics	Housing	(SECC) Sheet metal
	Weight	2.1 kg
	Dimensions (WxHxD)	440 x 88 x 270 mm (17.32" x 3.46" x 10.63")
	Mounting Options	Rack mount
Environment	Operation Temperature	-20~55°C
	Storage Temperature	-40~80°C
	Ambient Relative Humidity (non-condensing)	5 to 95% (non-condensing)
Power	Input Voltage	85~264 Vac
	Power Consumption	TBD
	AC Input	Yes
Standard and Regulation	EMC	CE,FCC, IEC-61850 compliance, China Electricity Level IV
	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-6230	Fanless Industrial PC with Intel® Core™ i7-3517UE CPU, 8 x GbE RJ45 ports, 4 x GbE SFP ports
-----------------	--