

LEC-6041

IEC 61850-3 Wide Temperature ICS Cyber Security Gateway with Intel Atom CPU



LEC-6041B

■ Features

- Wide Temperature ICS Cyber Security Box PC
- IEC 61850-3, IEEE 1613 and C1D2 Certified
- Intel® Atom™ x7-E3950 or x5-E3930 CPU
- 5x GbE LAN with 1 pair bypass, 2x GbE SFP
- 2x USB 3.0 and 2x COM, 1x HDMI
- Mini-PCIe with SIM slot support 4G-LTE
- Onboard TPM support

■ Preliminary Specifications

Processor System

CPU	Intel® Atom™ x7-E3950 or x5-E3930
Frequency	Atom x5-E3930: 1.3 GHz, Atom x7-E3950: 1.6 GHz
Core Number	Atom x5-E3930: 2, Atom x7-E3950: 4
BIOS	AMI SPI Flash BIOS
Chipset	SoC

Fanless

Yes

Memory

Technology	DDR3L, 1866 MHz
Max. Capacity	8 GB
Socket	1x 204-pin SODIMM

Graphic

Controller	Intel® HD 505 Graphics
Interface	1x HDMI

Ethernet

Controller	Intel® i210
Speed	RJ45: 10/100/1000Mbps, SFP: 1 Gbps
Interface	5x GbE RJ45 + 2x SFP
Bypass	1 pair Bypass
Magnetic Isolation Protection	1.5 KV built-in

Storage

Type	SATA (optional)
Installation	1x SATA connector with 2.5" drive bay (optional)
Type	mSATA
Installation	1x mSATA socket (optional)

Expansion

1x mini-PCIe with 1 SIM card for 4G LTE module (USB & PCIe signal)

I/O

Serial Port	2x RS-232, DB9 male
Isolation Protection	Digital Isolation Protection with 15KV ESD Protection
USB	2x USB 3.0 Type A
Power-On/Reset Button	Internal reset button
LED	HDD, STA, PWR, L1~L5, F1~F2, C1~C2

Watchdog Timer

Watchdog timer 256 level time interval system reset, software programmable.
Mode: Wdat_Wdt
iTCO (By Project)

Power

Power Supply Voltage	Dual 20 ~ 54 VDC
Connector	Phoenix contact 6-pin connector with lock
Power Consumption (Idle)	13.19W
Power Consumption (Full Load)	27.42W
Power Adaptor	None

Environment

Operating Temperature	-40°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Relative Humidity	5% ~ 95%, non-condensing

Mechanical

Dimension (W x H x D)	LEC-6041A: 186 x 160 x 53.5 mm LEC-6041B: 186 x 160 x 65 mm
Construction	Aluminum + SGCC
Weight	SKU A; 1.6 kg, SKU B: TBD
Mounting	DIN rail or Wall mount

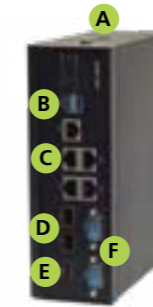
Driver Support

Microsoft Windows	Windows 10 PRO
Linux	Kernel 4.X

Certification

EMC	CE, FCC Class A
Safety	CB, UL, C1D2
Others	IEC 61850-3, IEEE 1613

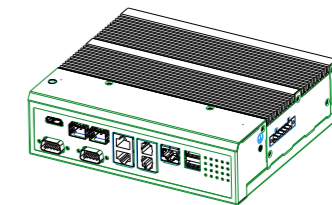
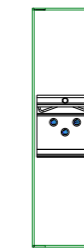
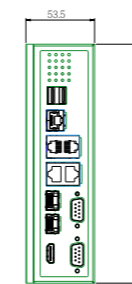
■ Product I/O View



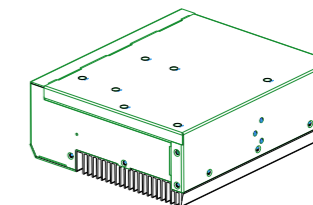
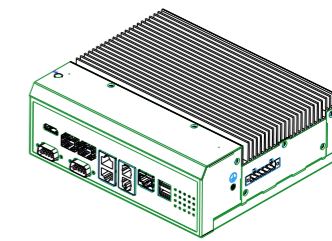
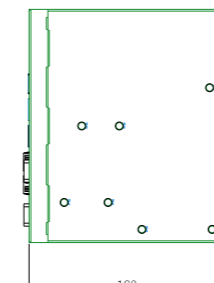
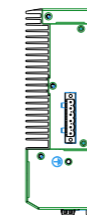
- A** DC IN
- B** USB
- C** RJ45
- D** SFP
- E** HDMI
- F** COM
- G** DIN rail

■ Dimensions: 186 x 160 x 53.5 mm (SKU A), 186 x 160 x 65 mm (SKU B)

LEC-6041A



LEC-6041B



■ Ordering Information

LEC-6041A	IEC 61850-3 Wide Temperature ICS Cyber Security Gateway with Intel Atom x5-E3930 processor
LEC-6041B	IEC 61850-3 Wide Temperature ICS Cyber Security Gateway with Intel Atom x7-E3950 processor

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Industrial BOX PC