

# LEC-604 I

## 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 and IEEE 1613 Certified
- Intel® Atom™ x7-E3950 or x5-E3930 CPU
- 5 x GbE LAN with 1 pair bypass, 2 x GbE SFP
- Onboard TPM support
- HDMI display output
- Mini-PCIe with SIM slot support 4G-LTE
- 2 x USB 3.0 and 2 x Isolated RS232

### ■ 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	1 x 204-pin SODIMM

#### Graphic

Controller	Intel HD 505 Graphics
Interface	1 x HDMI

#### Ethernet

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

#### Storage

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

#### Expansion

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

#### I/O

Serial Port	2 x RS-232, DB9 male
Isolation Protection	Digital Isolation Protection with 15KV ESD Protection
USB	2 x 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

#### Power

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

#### Environment

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

#### Mechanical

Dimension (W x H x D)	160 x 166 x 53.5 mm
Construction	Aluminum + SGCC
Weight	SKU A: 1.6 kg, SKU B: TBD
Mounting	DIN rail or Wall mount

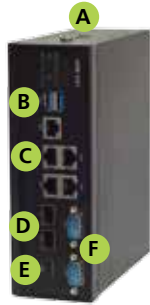
#### Driver Support

Microsoft Windows	Windows 10 PRO
Linux	Kernel 4.X

#### Certification

EMC	CE, FCC Class A
Safety	None
Others	IEC 61850-3, IEEE 1613

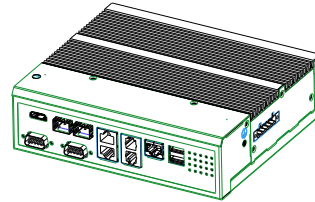
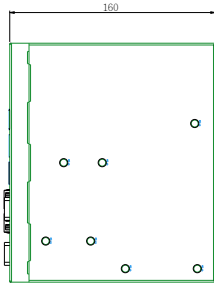
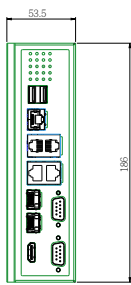
## Product I/O View



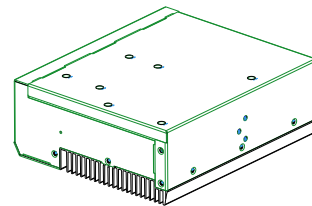
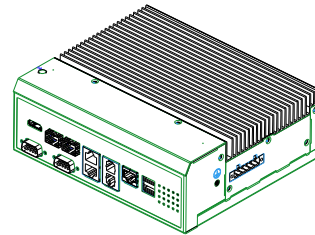
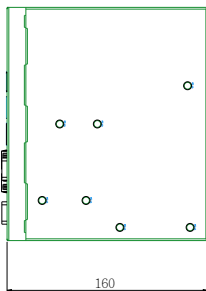
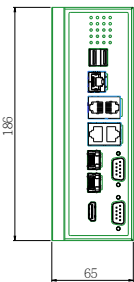
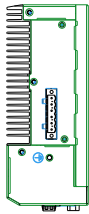
- A** DC IN
- B** USB
- C** RJ45
- D** SFP
- E** HDMI
- F** COM
- G** DIN rail

## 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

V.4-2019.6,20

# Lanner

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