

# LEC-3340

## IEC 61850-3 Certified 3U Rackmount Controller System for Power Substation



### ■ Features

- IEC 61850-3 and IEEE 1613 Certified
- Support Intel® Xeon® E3-1505L V6 or i5-7442EQ CPU (Codename KabyLake-H)
- Support Dual Power Input
- Rich I/O: 4x PCIe slots, 4x GbE RJ45 ports, 5x USB, 2x 2.5" Swappable Drive Bays, support DP and DVI display, 2x Isolated COM ports
- Wide temperature range (-40~70°C)
- Support 2x SO-DIMM DDR4 ECC memory up to 64GB
- Fanless design with corrugated aluminium

### ■ Preliminary Specifications

#### Processor System

CPU	Intel® Xeon® E3-1505L V6 or Core i5-7442EQ CPU
Frequency	2.2 GHz or 2.9 GHz
Core Number	Quad core
BIOS	AMI SPI Flash BIOS
Chipset	Intel® CM238

#### Memory

Technology	DDR4 ECC
Max. Capacity	Up to 64 GB
Socket	2 x 260-pin SODIMM

#### Graphic

Controller	Intel® Xeon® E3-1505L V6: HD Graphics P530 Intel® Core i5-7442EQ CPU: HD Graphics P630
Display Interface	DP, DVI-D

#### Ethernet

Controller	Intel® I210IT
Speed	Either 1000 Mbps or 10/100 Mbps
Interface	4 x 1000Base-T GbE RJ45 ports

#### Storage

SATA	2 x 2.5" Swappable HDD/SSD drive bay support RAID0,1
mSATA	1 x mSATA socket

#### I/O

Serial Port	2 x DB9 Male (COM1/COM2) on board with isolation supports software selectable RS-232/422/485
Isolation Protection	2KV Digital Isolation
ESD Protection	15KV ESD Protection
USB 3.0	5 x type A, front USB with key lock
Expansion	1 x PCIe x16, 3 x PCIe x4 slots
TPM	TPM 2.0 Onboard

#### LED

2x Power on for LED (Power1/Power2) in Green  
1x Storage access LED for mSATA/HDD1/HDD2 in Green  
4x double stack LED for Ethernet active in Yellow; Speed LED 100M in Green; Speed LED 1G: Yellow  
2x Double Stack LED for COM1/COM2 TX in Yellow; RX Signal Access in Green  
1x Failure LED(User Programmable)in multi-color Red/Green

#### Watchdog Timer

Watchdog timer 256 level time interval system reset, software programmable

#### Power

Support Dual Power Module Dual Power Input for 100~240VAC and 16.6~160VDC (SKU A/C)  
Dual Power Input for 16.6~160VDC and 16.6~160VDC (SKU B)

#### Environment

Operating Temperature	-40 ~ 70°C
Storage Temperature	-40 ~ 85°C
Relative Humidity	5% ~ 95%, non-condensing
Protection Degree	IP20

#### Mechanical

Dimension (W x H x D)	438 x 131.8 x 300.1 mm
Construction	Aluminum + Steel
Weight	8.5 kg
Mounting	Rackmount

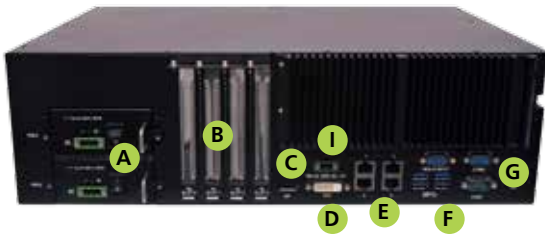
#### Driver Support

Microsoft Windows	Windows 10 Embedded
Linux	Kernel 4.x, Ubuntu

#### Certification

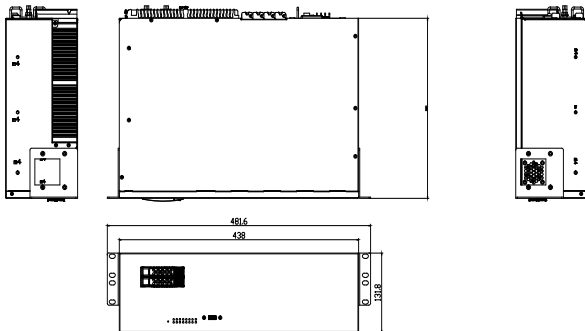
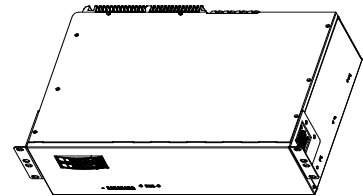
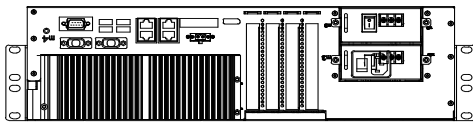
EMC	CE, FCC ClassA
Safety	CB,UL
Electrical Substations	IEC 61850-3, IEEE 1613

## ■ Product I/O View



- |                                 |                        |  |                                 |
|---------------------------------|------------------------|--|---------------------------------|
| <b>A</b> Redundant Power Supply | <b>D</b> DVI-D         | <b>G</b> 2x Isolated COM ports               | <b>J</b> Key lock for Front USB |
| <b>B</b> PCIe x4                | <b>E</b> 4x GbE RJ45   | <b>H</b> 2x 2.5" Swappable Drive Bays (RAID) |                                 |
| <b>C</b> DP port                | <b>F</b> USB 3.0 ports | <b>I</b> Relay for power failure alarm       |                                 |

## ■ Dimensions (WxHxD): 438 x 131.8 x 300.1 mm



## ■ Ordering Information

- |                  |   |
|------------------|---|
| <b>LEC-3340A</b> | IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, Dual PSU AC+DC |
| <b>LEC-3340B</b> | IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, Dual PSU 2xDC  |
| <b>LEC-3340C</b> | IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Core i5-7442EQ CPU, Dual PSU AC+DC    |

V8-2021\_3\_16

# Lanner

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