

# LEC-3340

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



\*Photo by SKU A - D

## ■ Features

- IEC 61850-3 and IEEE 1613 Certified
- Support Intel® Xeon® E3-1505L V6, i5-7442EQ (Kaby Lake-H) or W-11000 series CPU (Tiger Lake-H) (by SKU)
- Support 2x SO-DIMM DDR4 ECC memory up to 64GB
- 4x PCIe slots, 4x 1GbE RJ45 ports, 4x 2.5GbE RJ45 ports, 5x USB, 2x 2.5" Swappable Drive Bays, support DP, HDMI, DVI display, 2x Isolated COM ports (by SKU)
- Support Dual Power Input (by SKU)
- Wide temperature range -40°C~70°C

## ■ Preliminary Specifications

### Processor System

CPU	Intel® Xeon® E3-1505L V6 or Core i5-7442EQ CPU (by SKU A - D) Intel® Xeon® W-11865MLE/11555MLE/11155MLE (by SKU E - G)
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Frequency	2.2 GHz / 2.9 GHz / 1.5GHz / 1.9GHz / 1.8GHz
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Core Number	8 / 6 / 4 core
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BIOS	AMI SPI Flash BIOS
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Chipset	Intel® CM238 / RM590
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### Memory

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

Controller	Intel HD Graphics P630
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Display Interface	1x DP (by SKU A - D) 1x DVI-D (by SKU A - D) 2x HDMI (by SKU E - G)
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### Ethernet

Controller	Intel® I210IT / Intel® I226IT
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Speed	Either 1000 Mbps or 10/100 Mbps
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Interface	4x 1GbE RJ45 ports (by SKU A - D) 4x 2.5GbE RJ45 ports (by SKU E - G)
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### Storage

SATA	2x 2.5" Swappable HDD/SSD drive bay support RAID0,1 1x SATA M.2 2242 M-key (by SKU E - G)
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mSATA	1x mSATA socket (by SKU A - D)
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PCIe	1x PCIe x4 M.2 2280 (by SKU E - G)
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### I/O

Serial Port	2 x DB9 Male (COM1/COM2) onboard (by SKU A - D) 4 x DB9 Male (COM1/COM2/COM3/COM4) onboard (by SKU E - G) with isolation supports software selectable RS-232/422/485 1x IRIG-B
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Isolation Protection	2KV Digital Isolation
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ESD Protection	15KV ESD Protection
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USB	5x USB 3.0 type A (rear USB with key lock)
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Expansion	1 x PCIe x16, 3 x PCIe x4 slots
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TPM	TPM 2.0 Onboard
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### 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)
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### Environment

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

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

Microsoft Windows	Windows 10 Embedded
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Linux	Kernel 2.6, Ubuntu (by SKU A-D) Kernel 5.18, Ubuntu (by SKU E-G)
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### Certification

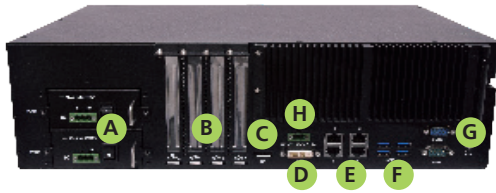
EMC	CE, FCC ClassA
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Safety	CB,UL
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Electrical Substations	IEC 61850-3, IEEE 1613
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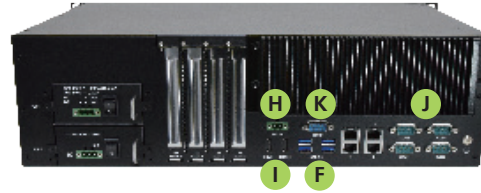
## Product I/O View

Front side by SKU A - D



- A** Redundant Power Supply
- B** PCIe x4
- C** DP
- D** DVI-D
- E** 4x GbE RJ45
- F** USB 3.0

Front side by SKU E - G



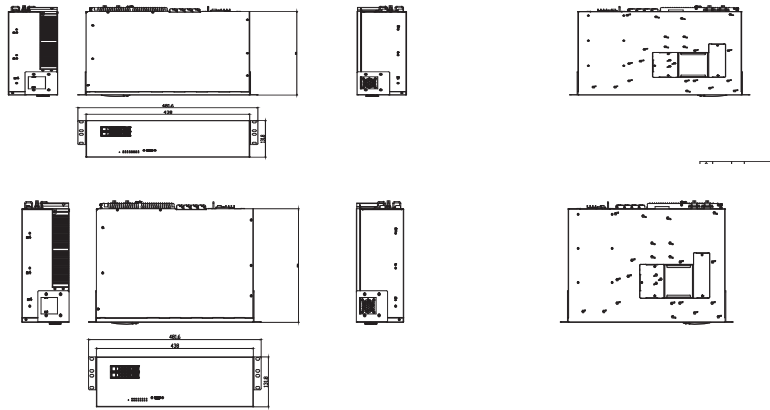
- G** COM
- H** Relay for power failure alarm
- I** HDMI
- J** 4x Isolated COM
- K** IRIG-B

Rear side by SKU A - G



- M** 2x 2.5" swappable drive bays (RAID)
- N** USB 3.0
- O** Key lock for rear USB

## 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
<b>LEC-3340D</b>	IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, No PSU
<b>LEC-3340E</b>	Intel® Xeon® W-11865MLE CPU w/ 2x DDR4 ECC SODIMM, 2x HDMI, 4x 2.5 GbE RJ45, 1x SATA M.2 2242 M-key, 1x PCIe x4 M.2 2280, No PSU
<b>LEC-3340F</b>	Intel® Xeon® W-11555MLE CPU w/ 2x DDR4 ECC SODIMM, 2x HDMI, 4x 2.5 GbE RJ45, 1x SATA M.2 2242 M-key, 1x PCIe x4 M.2 2280, No PSU
<b>LEC-3340G</b>	Intel® Xeon® W-11155MLE CPU w/ 2x DDR4 ECC SODIMM, 2x HDMI, 4x 2.5 GbE RJ45, 1x SATA M.2 2242 M-key, 1x PCIe x4 M.2 2280, No PSU
<b>LEA-PB3340A</b>	PSU KIT DC 16.6~160V, 100W
<b>LEA-PB3340B</b>	PSU KIT AC 100~240V, 200W

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