

# LEC-3340

## IEC 61850-3 Certified 3U Rackmount Automation Controller for Substation



\*Photo by SKU E - H

### ■ Features

- IEC 61850-3 and IEEE 1613 certified
- Support Intel® Xeon® W-11000 series CPU (Tiger Lake H)
- Support 2x SO-DIMM DDR4 ECC memory up to 64GB
- 4x 2.5GbE RJ45, 1x PCIe x16, 3x PCIe x4
- 5x USB, 2x HDMI, 2x isolated COM ports
- 2 or 3x 2.5" swappable drive bays (by SKU)
- Support dual power inputs
- Wide temperature range -40°C~70°C

### ■ Preliminary Specifications

#### Processor System

|             |                                                      |
|-------------|------------------------------------------------------|
| CPU         | Intel® Xeon® W-11865MLE/11555MLE/11555MLE/W-11555MRE |
| Frequency   | 1.5GHz / 1.9GHz / 1.8GHz/ 2.6GHz                     |
| Core Number | 8 / 6 / 4 core                                       |
| BIOS        | AMI SPI Flash BIOS                                   |
| Chipset     | Intel® RM590                                         |

#### Memory

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

#### Graphic

|                   |                        |
|-------------------|------------------------|
| Controller        | Intel HD Graphics P630 |
| Display Interface | 2x HDMI                |

#### Ethernet

|            |                               |
|------------|-------------------------------|
| Controller | Intel® I226IT                 |
| Speed      | Either 2500 Mbps or 1000 Mbps |
| Interface  | 4x 2.5GbE RJ45 ports          |

#### Storage

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| SATA | 2 or 3x 2.5" Swappable HDD/SSD drive bay support RAID0,1/RAID0,1,5(by SKU) |
| PCIe | 1x PCIe x4 M.2 2280                                                        |

#### I/O

|                      |                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------|
| Serial Port          | 4 x DB9 Male (COM1/COM2/COM3/COM4) onboard with isolation supports software selectable RS-232/422/485<br>1x IRIG-B |
| Isolation Protection | 2KV Digital Isolation                                                                                              |
| ESD Protection       | 15KV ESD Protection                                                                                                |
| USB                  | 5x USB 3.0 type A (rear USB with key lock)                                                                         |

#### Expansion

|      |                                 |
|------|---------------------------------|
| PCIe | 1 x PCIe x16, 3 x PCIe x4 slots |
|------|---------------------------------|

#### Watchdog Timer

Watchdog timer 256 level time interval system reset, software programmable

|     |                 |
|-----|-----------------|
| TPM | TPM 2.0 Onboard |
|-----|-----------------|

#### Power

|                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| Support Dual Power Module | 100 - 240 VAC (Single)<br>16.6 -160 VDC (Single)<br>100 - 240 VAC/VDC (Combo) |
|---------------------------|-------------------------------------------------------------------------------|

#### Environment

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

#### Mechanical

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

#### Driver Support

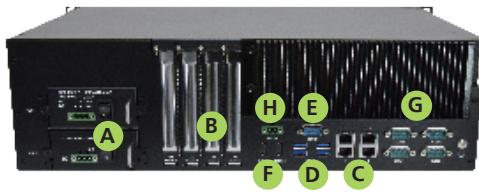
|                   |                     |
|-------------------|---------------------|
| Microsoft Windows | Windows 10 Embedded |
| Linux             | Kernel 5.18, Ubuntu |

#### Certification

|                        |                        |
|------------------------|------------------------|
| EMC                    | CE, FCC ClassA         |
| Safety                 | CB, UL (w/o SKU H)     |
| Electrical Substations | IEC 61850-3, IEEE 1613 |

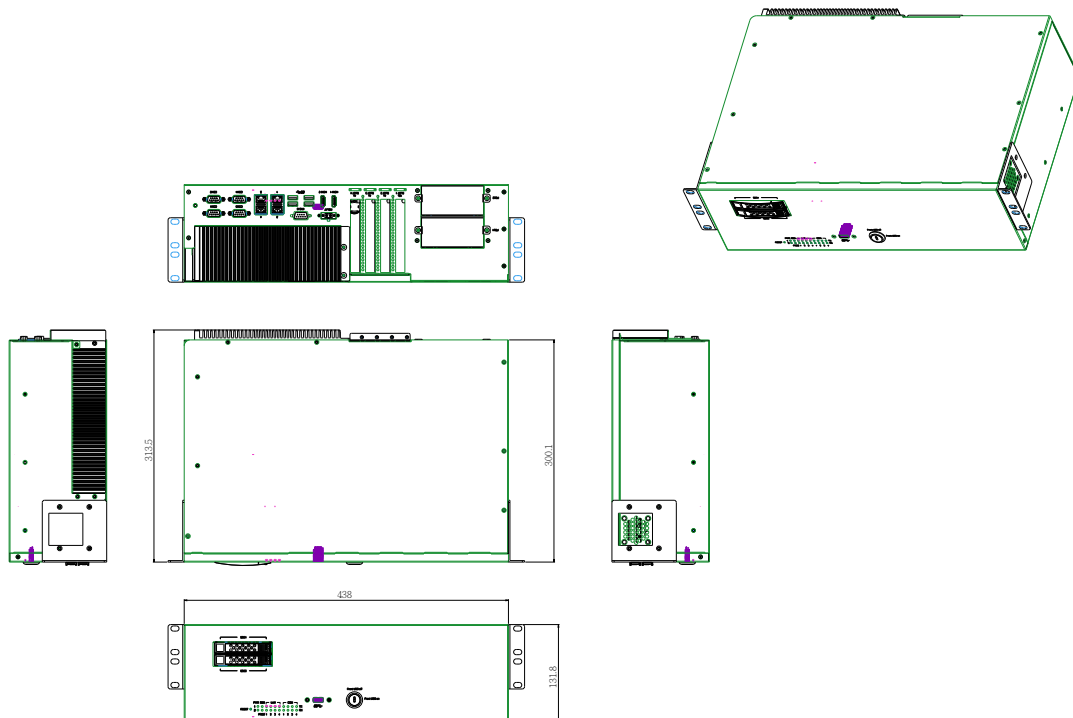
## ■ Product I/O View

Front side by SKU E - H



- |                                 |                  |                                            |                                |
|---------------------------------|------------------|--------------------------------------------|--------------------------------|
| <b>A</b> Redundant Power Supply | <b>D</b> USB 3.0 | <b>G</b> 4x Isolated COM                   | <b>J</b> USB 3.0               |
| <b>B</b> PCIe x4                | <b>E</b> IRIG-B  | <b>H</b> Relay for power failure alarm     | <b>K</b> Key lock for rear USB |
| <b>C</b> 4x 2.5GbE RJ45         | <b>F</b> HDMI    | <b>I</b> 2 or 3x 2.5" swappable drive bays |                                |

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



LEC-3340

## ■ Ordering Information

|                    |                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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, 2x 2.5" Swappable HDD/SSD drive bay, 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, 2x 2.5" Swappable HDD/SSD drive bay, 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, 2x 2.5" Swappable HDD/SSD drive bay, No PSU |
| <b>LEC-3340H</b>   | Intel® Xeon® W-11555MRE 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, 3x 2.5" Swappable HDD/SSD drive bay, No PSU |
| <b>LEA-PB3340A</b> | PSU KIT DC 16.6~160V, 100W (For SKU E/F/G Only)                                                                                                                       |
| <b>LEA-PB3340B</b> | PSU KIT AC 100~240V, 200W (For SKU E/F/G Only)                                                                                                                        |
| <b>LEA-PB3340C</b> | PSU KIT AC/DC 100~240V, 150W (For SKU H Only)                                                                                                                         |

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**Lanner**

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