

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



■ Features

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

■ Specifications

Display

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

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

Power

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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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

Storage

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

Ethernet

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

Watchdog Timer

Watchdog timer 256 level time interval system reset, software programmable

Operating System

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

Environment

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

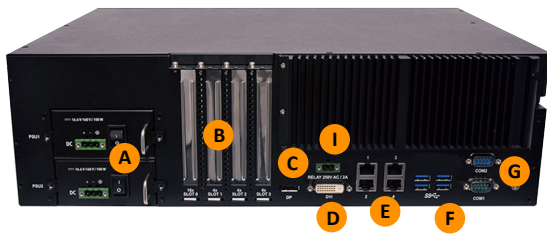
Certification Information (in process)

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

Physical

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

Product I/O View



A Redundant Power Supply

B PCIe x4

C DP port

D DVI-D

E 4x GbE RJ45

F USB 3.0 ports

G 2x Isolated COM ports

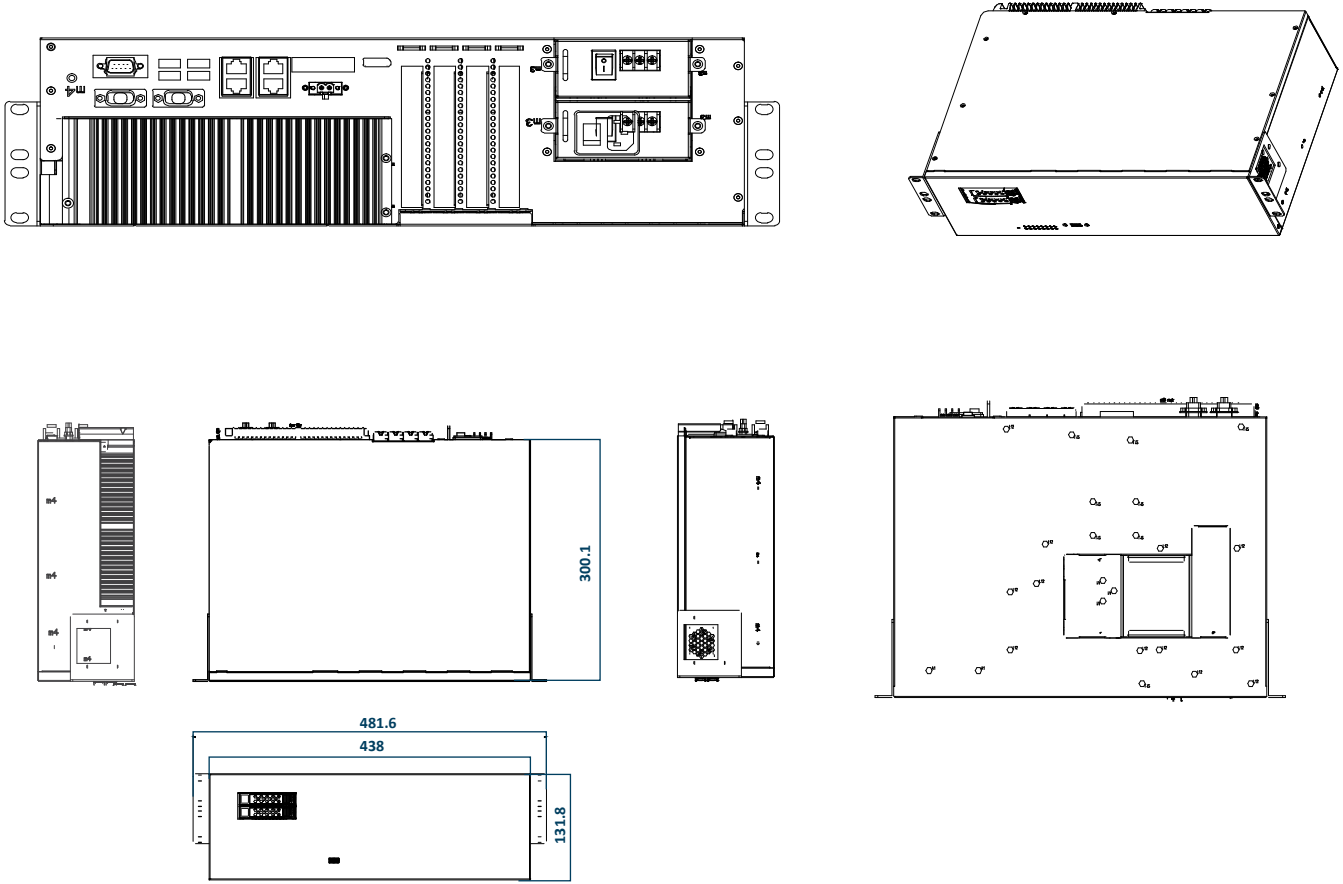
H 2x 2.5" Swappable Drive Bays (RAID)

I Relay for power failure alarm

J Key lock for Front USB



Mechanical Drawings (Unit = mm)



Ordering Codes

Model Number	Description
EEC-L7340A	IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, Dual PSU AC+DC
EEC-L7340B	IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, Dual PSU 2xDC
EEC-L7340C	IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Core i5-7442EQ CPU, Dual PSU AC+DC
EEC-7340D	IEC 61850-3 Compliant Rackmount Controller System for Power Substation Support Intel® Xeon® E3-1505L V6 CPU, No PSU
EEC-PSU-L7340A	PSU KIT DC 16.6~160V, 100W
EEC-PSU-L7340B	PSU KIT AC 100~240V, 200W

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