

# ECA-4027

**Short Depth Chassis Edge Computing Appliance with Intel Xeon® D-2100 Multi-core Processor (Codenamed Skylake-DE)**



Images are for reference only. See ordering information for SKU details.

## ■ Features

- Intel® Xeon D-2100 12/16 Cores Processor
- Short Depth Chassis and Wide Operating Temperature -40~65°C
- 2x DDR4 2667 MHz REG, ECC RDIMM, Max. 64GB
- Front Access I/O with 1x GbE RJ45 IPMI, 8x 10G SFP+, 2 x 40G QSFP+, 1x RJ45 Console, 1x USB 3.0 and Front Fan Replacement
- 2x 2.5" Internal HDD/SSD Bays, 2x M.2 NVMe 2280 M key
- 1x PCI-E\*16 FH/HL slot for FPGA or GPU cards (Max. up to 75W)
- Optional G.8272 T-GM Compliant IEEE 1588v2 SynE, onboard GPS

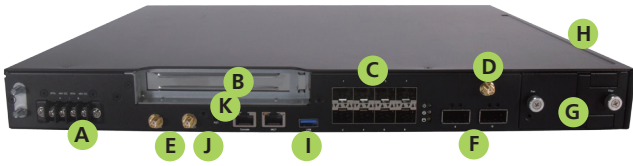
## ■ Preliminary Specifications

Platform	
Form Factor	1U 19" Rackmount
Processor Options	Intel® Xeon® D2100 12/16 Cores
CPU Socket	1 x Onboard
Chipset	N/A
Security Acceleration	Intel® QuickAssist Technology
BIOS	AMI SPI Flash BIOS
System Memory	
Technology	DDR4 2666MHz REG DIMM
Max. Capacity	64GB
Socket	2 x 288-pin DIMM
Networking	
Ethernet Ports	1 x GbE RJ45 (i210/BMC) and 8 x 10G SFP+, 2 x 40G QSFP+ (BCM56172 onboard)
IEEE 1588	Optional
GPS	Onboard
LOM	
IO Interface	1x GbE RJ45 via NCSI
OPMA Slot	N/A, onboard BMC chip
I/O Interface	
Reset Button	1 x Reset button (Default SW reset)
LED	Power/Status/Storage
Power Button	1
Console	1 x RJ45
USB	1 x USB 3.0
LCD Module	N/A
Display	N/A
Power Input	Dual DC power inlet
Storage	
HDD/SSD Support	2 x 2.5" Internal
Onboard Slots	2 x M.2 NVMe 2280 M key

Expansion	
PCIe	1 x PCI-E*16 FH/HL, support 75W device (by project)
mini-PCIe	N/A
SIM Card Slot	N/A
Miscellaneous	
Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Yes, IAC-TPM04A Module
Cooling	
Processor	Passive CPU Heatsink
System	5 x smart fans
Temperature	-40~65°C Operating -40~70°C Non-Operating
Humidity (RH)	5~95% Operating 5~95% Non-Operating
System Dimensions	
(WxDxH)	438 x 371 x 44 mm
Weight	5 kg
Package Dimensions	
(WxDxH)	555 x 479 x 179 mm
Weight	TBD
Power	
Type / Watts	400W
Input	-57 VDC ~ -40VDC dual input feed
Certification	
Approvals and Compliance	CE/FCC Class A, UL
OS Support	Linux

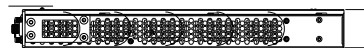
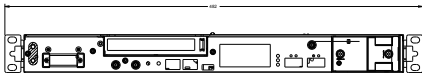
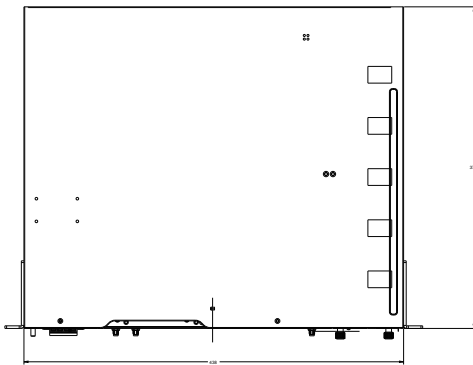
## Product I/O View

Images are for reference only. See ordering information for SKU details.



- |                        |                                 |                                       |                       |
|------------------------|---------------------------------|---------------------------------------|-----------------------|
| <b>A</b> Dual DC input | <b>D</b> GPS                    | <b>G</b> Front Access Fan replacement | <b>J</b> Power button |
| <b>B</b> PCI-E*16 slot | <b>E</b> 1588 Sync Cascade Jack | <b>H</b> Cooling Fans                 | <b>K</b> Reset button |
| <b>C</b> 8 x 10G SFP+  | <b>F</b> 40G QSFP+              | <b>I</b> Status LEDs                  |                       |

## Dimensions (WxDxH) 438 x 371 x 44 mm



## Ordering Information

- |                                   |  |
|-----------------------------------|--|
| <b>ECA-4027A</b>                  | Open RAN Appliance with Intel Xeon 16C D-2187NT with QAT, 1x GbE RJ45, 8x 10G SFP+, 2x 40G QSFP+, 1x PCIe slot |
| <b>ECA-4027B</b>                  | Open RAN Appliance with Intel Xeon 12C D-2166NT with QAT, 1x GbE RJ45, 8x 10G SFP+, 2x 40G QSFP+, 1x PCIe slot |
| <b>IEEE1588 TIMING MODULE KIT</b> | IEEE1588 TIMING MODULE KIT for ECA-4027  |

V3-2022.11.15