



CROSSFIRE

**EU-S**

**EXPANSION UNIT**

Switch (EU-S)

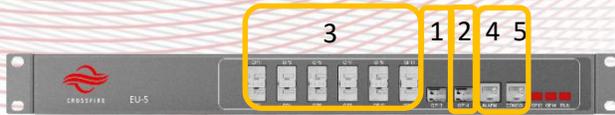
## OVERVIEW

CrossFire EU-S is a fronthaul gateway with optional translator. It translates the protocol between ORAN FH Option 7-2x and Option 8. Through EU-S, traditional CPRI-based RRUs can be connected to O-DU to implement the ORAN architecture. Multiple RRUs share the same LOW-PHY functions deployed on EU-S, to reduce the system complexity and cost. EU-S supports the direct connection for up to 12 RRUs. For large-scale deployment scenarios, EU-O can also be used to expand the number of RRUs and to increase system flexibility.

## KEY FEATURES

- 12 Optical Interfaces for CPRI
- One Optical Interface for eCPRI
- ORAN Compliance
- 1U Height
- Passive Cooling

## SYSTEM ELEMENTS



- |                        |                                  |
|------------------------|----------------------------------|
| 1 OP Port for DU       | 2 OP Port for DU or EU-S Cascade |
| 3 OP Ports for RU/EU-O | 4 External Alarm Interface       |
| 5 RJ45 for Local Debug |                                  |

- |                |                   |
|----------------|-------------------|
| 1 Power Socket | 2 Grounding Screw |
|----------------|-------------------|



**EU-S**  
Low Power  
Expansion Unit

**TECHNICAL SPECIFICATION**

**SYSTEM**

FrontHaul Transmission Connector Type	SFP28/SFP+
FrontHaul Transmission Rate	25GE/10GE
CPRI Transmission Connector Type	SFP+
CPRI Transmission Rate	10.1376Gbps
Maintenance Interface	Ethernet RJ45
External Alarm Interface	RJ45, 4 Inputs, NO or NC.
Electromagnetic Compliance	3GPP TS38.113   3GPP TS36.113
Operating Temperature	-5°C ~ 45°C / 23°F ~ 113°F
Ingress Protection Rating	IP20 (Indoor)
Power	100-240V AC, 50/60Hz   48v DC ± 20%
Maximum Power Consumption	50W
Installation	Wall or 19" Rack
Equipment Dimensions: Width x Height x Depth (Weight)	440mm x 44mm x 220mm (5.0kg) / 17.32in x 1.73in x 8.66in (11.02lbs)
Packaging Dimensions: Width x Height x Depth (Weight)	555mm x 140mm x 350mm (6.0kg) / 21.85in x 5.51in x 13.78in (13.22lbs)

**ORDERING INFORMATION**

Part Code	Part Description
DRRU-E3031D00	CrossFire EU-S, 10km Duplex SFP+, DC Powered
DRRU-E3031200	CrossFire EU-S, 10km Duplex SFP+, Type I AC Lead
DRRU-E3031300	CrossFire EU-S, 10km Duplex SFP+, Type E/F AC Lead
DRRU-E3031400	CrossFire EU-S, 10km Duplex SFP+, Type G AC Lead
DRRU-E3031800	CrossFire EU-S, 10km Duplex SFP+, Type D AC Lead

Contact Us

[www.btiwireless.com](http://www.btiwireless.com)

[sales@btiwireless.com](mailto:sales@btiwireless.com)