

Front View



Rear View



As a member of the O-RAN ALLIANCE, SOLiD is committed to the openness of the Radio Access Network (RAN) and compatibility with numerous basebands (CU/DUs) based on the latest O-RAN ALLIANCE standards.

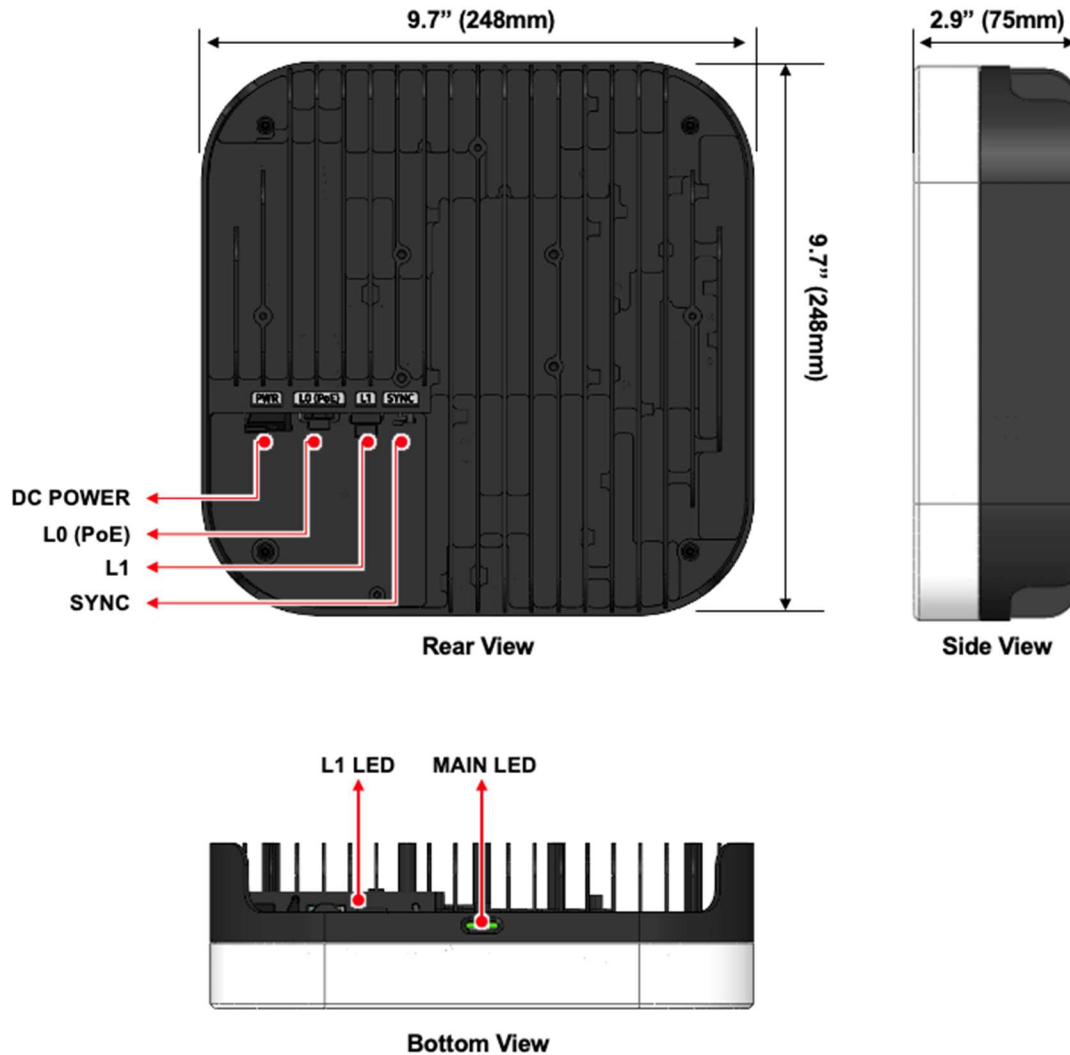
The SOLiD Band 48 (CBRS Band) Radio Unit is based on true O-RAN ALLIANCE specifications. It is compatible with multiple baseband (virtual or on-site) products.

Features:

- O-RAN fronthaul specification 7-2x
- 4G LTE, 5G NR supported, standalone or mixed mode
- Composite power: $\leq +30$ dBm
- 2T2R with internal antenna

Overview

The SOLiD CBRS Radio Unit is an O-RAN Radio Unit with eCPRI interface to the baseband (CU/DU) for the Band 48 (CBRS Band). The unit complies with O-RAN fronthaul specification 7-2x. It supports 4G LTE and 5G NR, standalone or in a mixed mode.



Interface / Port	Description
DC Power	Pin 1: RTN Pin 2: -48V
L0 (PoE): 1 PoE port for O-DU/FHM	L0: eCPRI, RJ-45, 2.5G/5G/10GBASE-T
L1: 1 Optic port for O-DU/FHM	L1: eCPRI, SFP+, 10GBASE-SR/LR
Sync	Level: LVTTTL 3.3V Signal: 1PPS (Rising Edge)
*Specifications subject to change	

Specifications

Parameters	Specifications
Basic Functions	eCPRI, Low PHY, M-Plane
Air Technology	LTE and 5G NR 3GPP Standard Release 8,9,10,13,14,15
Operating Frequency Range	n48: CBRS, 3550 – 3700MHz for Tx, Rx
Carrier Bandwidth [IBW/OBW]	150MHz / 100MHz
Carrier Bandwidth	LTE: 5/10/15/20MHz NR: 10/15/20/40/50/60/80/100MHz
Numerology	LTE: 15KHz NR: 30KHz
Modulation	1024 QAM
Maximum Number of Carriers	5CC
Antenna Configuration	2T2R
EIRP	+26.5dBm per path (29.5dBm total) Category A
ACLR	45dBc or -32dBm/MHz
FH Specification	O-RAN WG4 FH Interface 7-2x (O-RAN.WG4.CUS/MP.Spec.v6.0)
Clock Source	IEEE1588v2 Client, SyncE Supportable
Power Source	PoE, DC Power (-48V)
Power Consumption	Typical 68W, Max 71W
Operating Temperature	-20~50°C without solar load (Wall/Pole Mount). -20~40°C without solar load (Ceiling Mount)
Operating Humidity	5 to 90 % relative humidity, condensing not to exceed 30 g/m3 absolute humidity
IP Rate	IP40
Size (Dimensions W x H x D)	248 x 248 x 75mm, 9.7 x 9.7 x 2.9 inch (without bracket)
Weight	≤ 4Kg
*Specifications subject to change	

Parts List

Part Number	O-RAN CBRS Radio Unit
ORUB48	O-RAN based Radio Unit, Band 48 (CBRS Band), Category A



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