Rooftop Radio Box (RTB)

Outdoor Enclosures

Overview

The ARIA Rooftop Box (RTB) Wallmount Enclosure holds a preterminated cable assembly on an internal reel and supports ethernet, power, and fiber cable termination for use with wireless microwave radio building to to building communication systems.

The cable is pulled off of the internal spinning reel and the panel holds the remaining slack.

This allows for one panel configuration to serve multiple deployments without the need for slack storage.

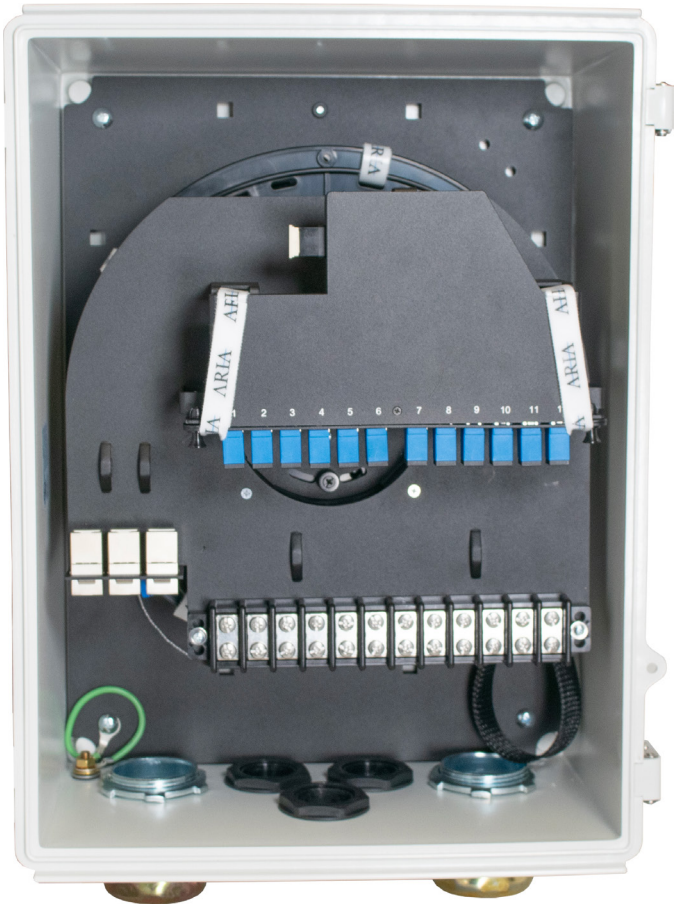
A breakout cassette comes preinstalled on single reel configurations and does not interfere with cable deployment.

Double reel or single reel configurations are available depending on the length needed.

The pulled connector is protected with a pulling eye.

It is UL listed, IP67 rated, and provides enhanced network security, durability, and weather protection.

A 12 or 24 fiber breakout cassette, 12-circuit terminal block, and three Cat5e couplers come standard.



(925) 447-7500
sales@ariatech.com
www.ariatech.com

Rooftop Radio Box (RTB)

Outdoor Enclosures

Features

- Internal spinning reel stores cable slack and allows one product to serve different deployment scenarios
- Supports up to 1,000 feet of 12 fiber cable internally with capacity for additional cable on an external reel
- A thumbscrew locks the reel rotation once the desired length of cable has been deployed
- Gasketed and pad lockable door
- Management rings and bridge lances organize cable slack
- 12-fiber SC, 12-fiber LC, or 24-fiber LC breakout cassette configurations are available
- Port labeling beside bulkheads for quick identification
- Terminal block provides connections for 12 circuits
- 3 shielded Cat5e couplers
- An M6 brass threaded rod provides an external ground connection and grounds the shielded Cat5e coupler and internal metal plates.

Specifications

Dimensions (HxWxD)	15.7” x 11.8” x 7.1”
Terminal Block Circuits	12
Cat5e Connections	3
Fiber Capacity	12 SC or 24 LC
12-Fiber Length Capacity (Feet)	2,000 (Double Reel) or 1,000 (Single Reel)
24-Fiber Length Capacity (Feet)	1,000 (Double Reel) or 500 (Single Reel)
Cable Type	3mm OFNP Indoor or 3mm OFNR Indoor/ Outdoor Armored
1.89” Cable Entry Holes	2 - For Use With 1.5” EMT Conduit Compression Connectors or Plugs
1.26” Cable Entry Holes	3 - For Use With Compression Fittings for Hybrid Cable Assemblies
Material	UL Rated and UV Resistant Polycarbonate
Material Finish	Light Gray
Weight (lbs)	8.5 (Without Cable)

Cable Entry

Two raintight 1.5” EMT conduit compression connectors are included for connectivity from the building or between RTBs.

A 1.89” plug is included when only one RTB is needed.

Three 1.26” plugs are included and when removed support hybrid cable assembly entry.

Pairs With Hybrid Cable Assemblies

Hybrid cable assemblies connect antenna radio systems and are comprised of the following cables:

- 4-conductor 16AWG SJ00W 300V power cable
- 4-pair 24AWG indoor/outdoor shielded cat5e cable
- 2-fiber 4.8mm indoor/outdoor OFNR SM fiber cable

(925) 447-7500
sales@ariatech.com
www.ariatech.com

Rooftop Radio Box (RTB)

Outdoor Enclosures

IP67 Rated

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 7
Protected from water ingress while immersed in shallow water.

IP 67

Pairs With ARC Panels

ARC 1RU: Accepts 4 Breakout Cassettes

ARC 2RU: Accepts 8 Breakout Cassettes

Cable Options

3mm Indoor OFNP 12-Fiber

3x6mm Indoor OFNP 24-Fiber Zip-cord

3mm Indoor/Outdoor OFNR 12-Fiber Armored

Breakout Cassette

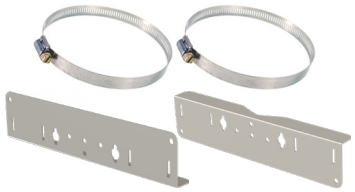
12-Fiber SC/UPC
P/N: ARC-CAS-12-B-SCU-MPO-1EM-90

12-Fiber LC/UPC
P/N: ARC-CAS-12-B-LCU-MPO-1EM-90

24-Fiber LC/UPC
P/N: ARC-CAS-24-B-LCU-MPO-1EM-90

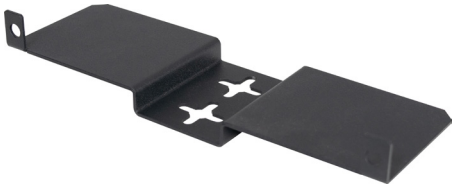
The ports feature generous spacing for easy access and are labeled for quick identification.

Accessories



Pole Mount Bracket Kit
P/N: RTB-PMB-KIT

Unistrut Direct Attachment Kit
P/N: RTB-US-MTG-KIT



ARC Cassette Wallmount Bracket
P/N: ARC-CAS-WM-BRKT

(925) 447-7500
sales@ariatech.com
www.ariatech.com

Rooftop Radio Box (RTB)

Outdoor Enclosures

Part Number

RTB- _ _ _ _ _ _ _ _ _ _

1 2 3 4 5 6 7 8 9 10

1 Configuration

Leave Blank for Enclosure With Cable

EO = Enclosure Only with No Cassette

2 Fiber Count

Leave Blank for Enclosure Only Configuration

12 = 12F
24 = 24F (LC Only)

3 Cable Type

Leave Blank for No Cable Configuration

X = Indoor/Outdoor OFNR Armored*
R = Indoor OFNP**

*Utilizes two cables for 24-fiber configurations
**Utilizes zipcord for 24-fiber configurations
Note: Singlemode bend insensitive G.657.A1 fiber only

3 Breakout Cassette Connector Type

Leave Blank for Enclosure Only Configuration

SCU = SC/UPC
SCA = SC/APC
LCU = LC/UPC
LCA = LC/APC

Note: Add "2" prefix for two cassettes of the same type included to reduce packaging and for use in ARC panel.

5 Connector Type at Far End

Leave Blank for No Cable Configuration

SC = SC
LC = LC
FC = FC
ST = ST
MP = MPO
00 = No Connector

5 Polish Type at Far End

Leave Blank for No Cable Configuration

U = UPC
A = APC*
0 = No Connector

Note: Select MPO APC for use with breakout cassette
*Unavailable for ST

6 MPO Type at Far End

Leave Blank for Non-MPO Connector or No Cable Configuration

Choose 1 Option for Each Feature:
1 = 12 or 2 = 24 Fiber Connector
F = Female or M = Male Guide Pins

Note: Select 12-fiber female for use with breakout cassette

7 Breakout Type at Far End

Leave Blank for MPO Connector or No Cable Configuration

9 = 900µm
2 = 2mm

8 Breakout Length at Far End

Leave Blank for MPO Connector or No Cable Configuration

XX = Length in Inches (Typically: 18", 24", or 36")

9 Cable Length

Leave Blank for No Cable Configuration

XXXXF = XXXX Feet
XXXXM = XXXX Meters

Note: Pulling eye included on far end. Protective cap included for MPO connectors. Lengths over 1,000ft are provided on a double reel.

10 Mounting Hardware

Leave Blank for Standard Wallmounting Hardware

PM = Pole Mount Brackets and Worm Gear Clamps
UM = Stainless Steel Hex Bolts for Direct Attachment to Unistrut

(925) 447-7500
sales@ariatech.com
www.ariatech.com