ViaLiteHD® – ODE-B3U Outdoor Enclosure

Outdoor Enclosure for 3U chassis

- **Houses *ViaLiteHD* HRK-3**
- **Benefit from all HRK-3 supported features:**
  - **Dual redundant PSU**
  - **Monitoring & Control**
  - **All *ViaLiteHD* RFoF rack modules**
- **High module / channel density**
- **Simple tilt mechanism for easy access**
- **Waterproof power, fiber and Ethernet outdoor connectors**
- **IP66 rated enclosure**
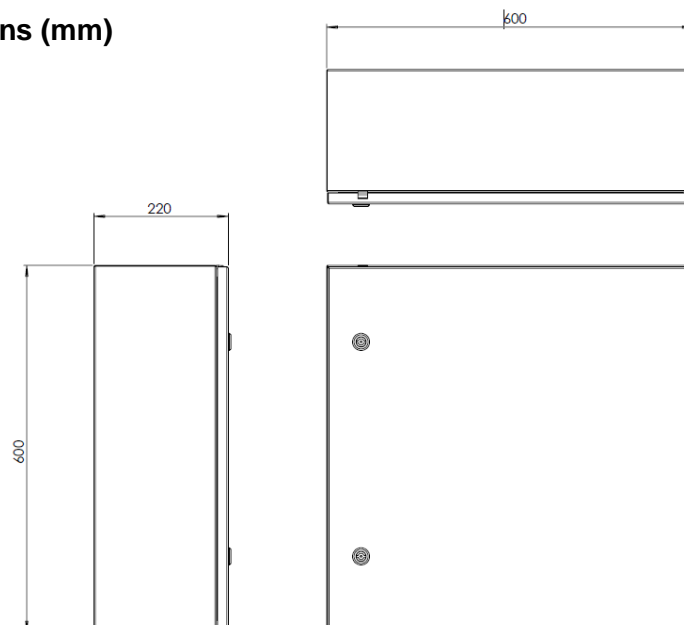- **5-year warranty**

The ***ViaLiteHD*** ODE-B3U brings all the features and benefits of the ***ViaLiteHD*** HRK-3 19" 3U chassis and its compatible rack based modules into a compact outdoor enclosure. The enclosure is powder coated stainless steel and has an IP66 ingress protection rating. It is typically installed on a wall, rooftop or antenna hub where RF and other services are transmitted over optical fiber to a remote equipment room. For ease of installation and maintenance, the full 3U rack can tilt forwards. Also contained within the ODE-B3U is an integral fiber patch panel and customized gland plate for fiber, RF, power and data connections.

Options
- The enclosure is available with a heater and/or solar shield as environmental options.
- An optional fan assembly for the ***ViaLiteHD*** 19" 3U rack chassis allows the enclosure to run in hotter ambient conditions.

Mechanical Dimensions (mm)

Due to our policy of continuing product development, these specifications are subject to change and improvement without notice.

Technical specifications

Parameter	ODE-B3U Enclosure
Recommended maximum number of RF channels / modules (1)	20
IP Rating	IP66
External Dimensions	600 x 600 x 220 mm
Weight (unloaded)	19 kg (Enclosure and Empty Rack)
Material	Powder coated Stainless Steel
Max RF Input / Output Connectors	20 x N-Type female
Max Optical Fiber Connections	2 x Fiber split gland
Max Power Supply Connections	3 x Power split gland
Max RJ45 Connections	2 x RJ45
PSU Options	Single or dual redundant
Supply Voltage Options	88-264 VAC 20-72 VDC
Min Operating Ambient Temperature	-20 °C -40 °C (with heater)
Max Operating Ambient Temperature (2)	+60 °C / 4 RF modules +55 °C / 8 RF modules +50 °C / 12 RF modules +45 °C / 16 RF modules
Storage Temperature	-40 °C to +70 °C
Climate Control	Humidity ventilator

(1) See limit of number of RF channels / modules versus maximum allowable ambient temperature
(2) Assumes HRK-3S fitted with 2 x HPS-3 PSU, 1 x HRC-3 Monitoring and Control, fan tray option, solar shield and module temperature operating is limited to +65 °C. RF module can be any combination of standard Tx, DWDM Tx or Rx module.

Popular products

HB0-74-20-10-10000
Outdoor Enclosure ODE-B3U, with no Environmental Options, with a Gland plate with 4x 50 Ohm N-type connectors, a M20 Insert supporting 6-8mm Diameter Fiber Cable, no secondary Fiber Insert, 1x Neutrik Mains cable gland, with no other Power Gland inserts, 1x RJ45 connector.
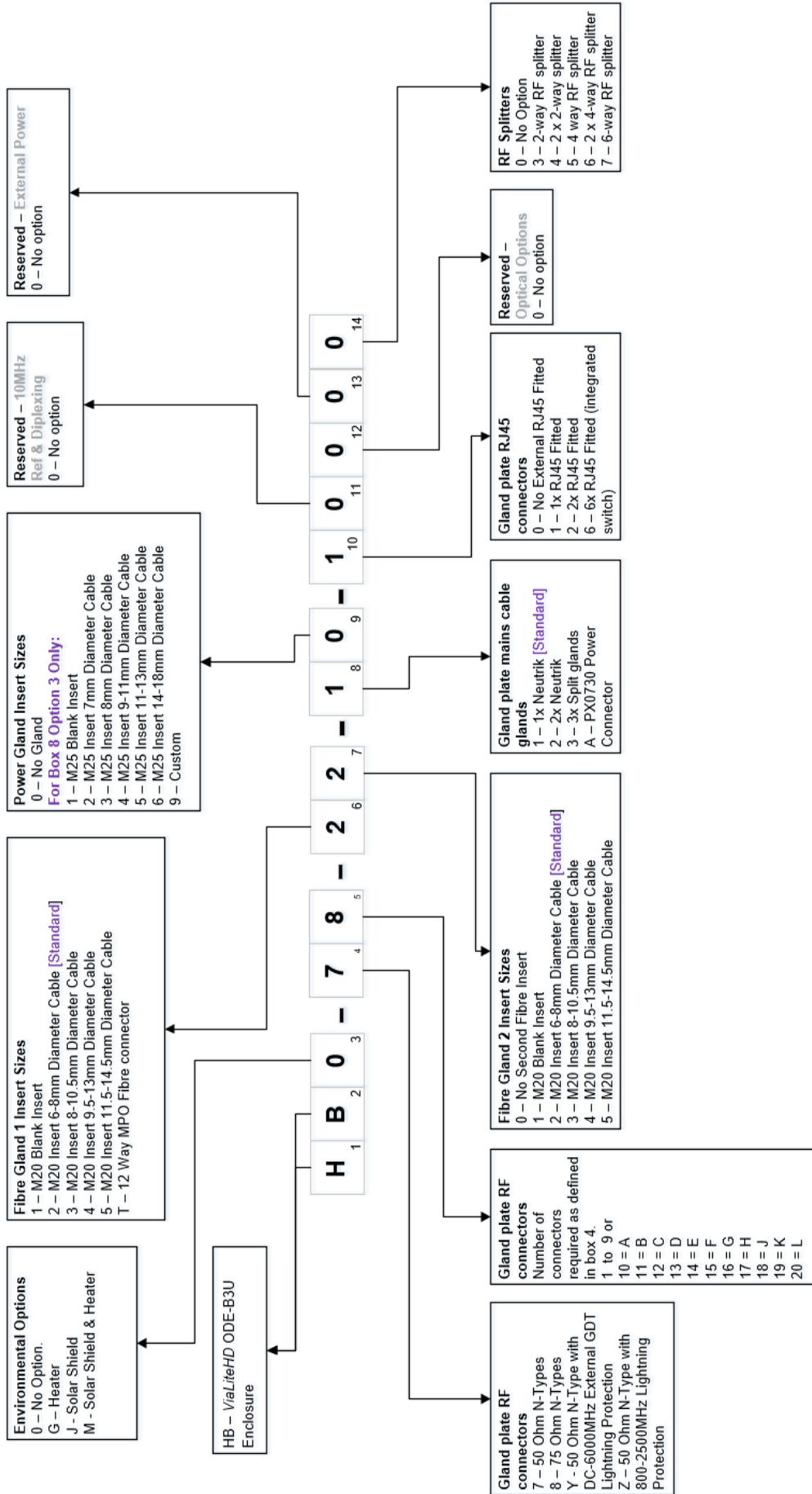
HBJ-7A-22-20-20000
Outdoor Enclosure ODE-B3U, with Solar Shield, with a Gland plate with 10x 50 Ohm N-type connectors, a M20 Insert supporting 6-8mm Diameter Fiber Cable, a secondary M20 Insert supporting 6-8mm Diameter Fiber Cable, 2x Neutrik Mains cable gland, with no other Power Gland inserts, 2x RJ45 connector.
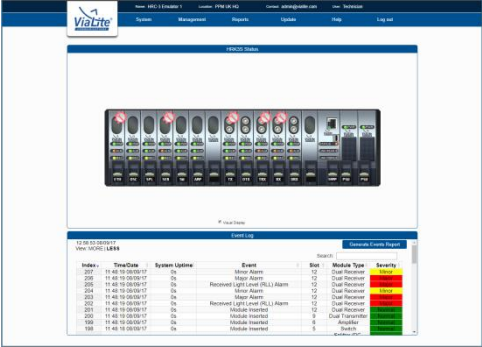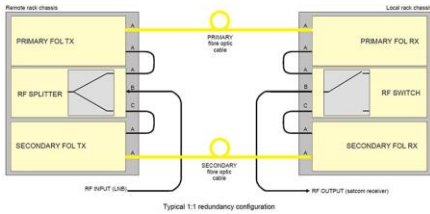
HB0-78-22-10-20000
Outdoor Enclosure ODE-B3U, with no Environmental Options, with a Gland plate with 8x 75 Ohm N-type connectors, a M20 Insert supporting 6-8mm Diameter Fiber Cable, a secondary M20 Insert supporting 6-8mm Diameter Fiber Cable, 1x Neutrik Mains cable gland, and no other Power Gland inserts, 2x RJ45 connector.

Product configurator

Configurator string: H B 0 - 7 8 - 2 2 - 1 0 - 1 0 0 0

Positions: 1=H, 2=B, 3=0, 4=7, 5=8, 6=2, 7=2, 8=1, 9=0, 10=1, 11=0, 12=0, 13=0, 14=0

HB – *ViaLiteHD* ODE-B3U Enclosure

Environmental Options
0 – No Option.
G – Heater
J - Solar Shield
M - Solar Shield & Heater

Fibre Gland 1 Insert Sizes
1 – M20 Blank Insert
2 – M20 Insert 6-8mm Diameter Cable [Standard]
3 – M20 Insert 8-10.5mm Diameter Cable
4 – M20 Insert 9.5-13mm Diameter Cable
5 – M20 Insert 11.5-14.5mm Diameter Cable
T – 12 Way MPO Fibre connector

Fibre Gland 2 Insert Sizes
0 – No Second Fibre Insert
1 – M20 Blank Insert
2 – M20 Insert 6-8mm Diameter Cable [Standard]
3 – M20 Insert 8-10.5mm Diameter Cable
4 – M20 Insert 9.5-13mm Diameter Cable
5 – M20 Insert 11.5-14.5mm Diameter Cable

Gland plate RF connectors
Number of connectors required as defined in box 4.
1 to 9 or
10 = A
11 = B
12 = C
13 = D
14 = E
15 = F
16 = G
17 = H
18 = J
19 = K
20 = L

Gland plate RF connectors
7 – 50 Ohm N-Types
8 – 75 Ohm N-Types
Y - 50 Ohm N-Type with DC-6000MHz External GDT Lightning Protection
Z – 50 Ohm N-Type with 800-2500MHz Lightning Protection

Power Gland Insert Sizes
0 – No Gland
For Box 8 Option 3 Only:
1 – M25 Blank Insert
2 – M25 Insert 7mm Diameter Cable
3 – M25 Insert 8mm Diameter Cable
4 – M25 Insert 9-11mm Diameter Cable
5 – M25 Insert 11-13mm Diameter Cable
6 – M25 Insert 14-18mm Diameter Cable
9 – Custom

Gland plate mains cable glands
1 – 1x Neutrik [Standard]
2 – 2x Neutrik
3 – 3x Split glands
A – PX0730 Power Connector

Reserved – 10MHz Ref & Diplexing
0 – No option

Reserved – External Power
0 – No option

Gland plate RJ45 connectors
0 – No External RJ45 Fitted
1 – 1x RJ45 Fitted
2 – 2x RJ45 Fitted
6 – 6x RJ45 Fitted (integrated switch)

Reserved – Optical Options
0 – No option

RF Splitters
0 – No Option
3 – 2-way RF splitter
4 – 2 x 2-way RF splitter
5 – 4 way RF splitter
6 – 2 x 4-way RF splitter
7 – 6-way RF splitter

Supporting products

Type	Key Features
Monitoring and Control Web Browser/Module	• Easy to use graphical user interface (GUI) • Real time monitoring of card performance • Alarm monitoring and event logging • Control of gain adjustment • Compatible with all *ViaLiteHD* rack chassis and cards • Easy integration with network management systems (NMS) using management information base (MIB) tables • Actively manage redundancy switching • New RF cards can be automatically reprogrammed with the previous card parameters • Remote SNMP to local SNMP connection via optical fiber • Provides remote LAN 10/100/1000 Ethernet link
Dual Redundancy	• 1:1 redundancy for L-Band • Maximizes link up-time • Can be used to backup copper coax • Manual and automatic control via Monitoring & Control Modules • Flexible configuration options • Other redundancy options available
Rack Chassis	• 3U accepts up to 13 RF or Support cards, plus an Monitoring & Control Module and dual power supplies • A 1U chassis accepts up to 3 RF or Support cards or 2 cards and a Monitoring & Control Module (with dual power supplies) • Up to 26 channels per 3U chassis (using dual RF cards) – reducing the amount of rack space required • Blind mate option • All modules hot-swappable and auto-reconfigure with monitoring and control option • On-card LNB and BUC power options • Power fed through rear chassis connector to card Bias Tees • System can be monitored and controlled remotely via SNMP using a web browser
Outdoor Enclosures	Further enclosures available • CE approved and EMC compatible • IP rated and NEMA approved • Plug and play format • Suitable for harsh environments • All modules hot swappable • Dual redundant power options • Interface for monitoring and control (M&C) systems