ViaLiteHD® – ODE-MINI

Small Outdoor Enclosure

- **Houses 2x *ViaLite* links up to 6 GHz or 1x C-Band link 500 MHz to 7.5 GHz**
- **SNMP management option**
- **Gigabit Ethernet switch option**
- **LNA/B powering option**
- **Waterproof Power, Fiber and Ethernet outdoor connectors**
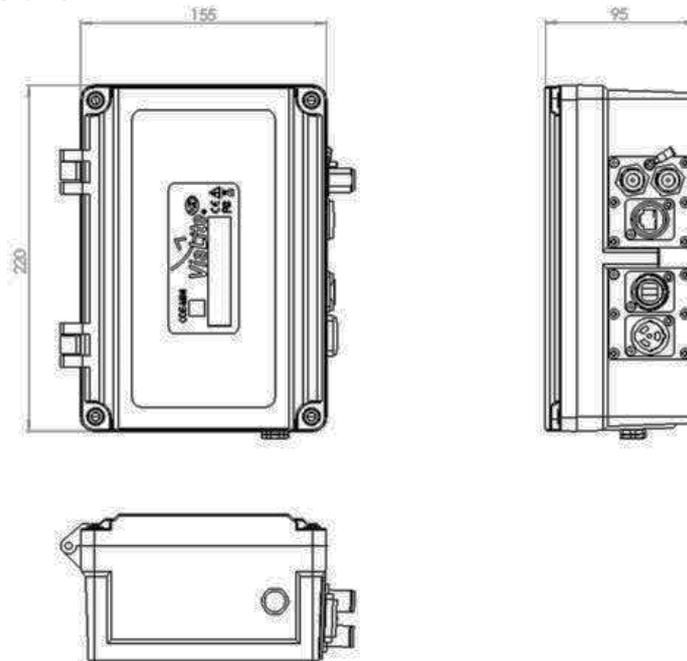- **Compact, IP65 rated enclosure**
- **Standard 5-year warranty**

The ***ViaLiteHD*** ODE-MINI is a versatile enclosure designed for compact locations. The enclosure is cast aluminium and has an IP65 ingress protection rating. It is typically installed on a rooftop or antenna hub where RF and other services are transmitted over optical fiber to a remote equipment room. With options for fully integrated SNMP, Mini Ethernet Switch and LNA/B power, this enclosure is class leading for its size and cost.

Options

- Houses 1x C-Band Link up to 7.5 GHz or 2x Blue OEM modules for any *ViaLite* RF link up to 6 GHz (including L-Band HTS)
- 3 port mini gigabit Ethernet switch supporting 1x Optical SFP and 2 x RJ45 ports
- LNA/B Power board supporting 13,15,18, 24 VDC feeds power to external devices through RF connection
- SNMP management allowing module configuration and monitoring
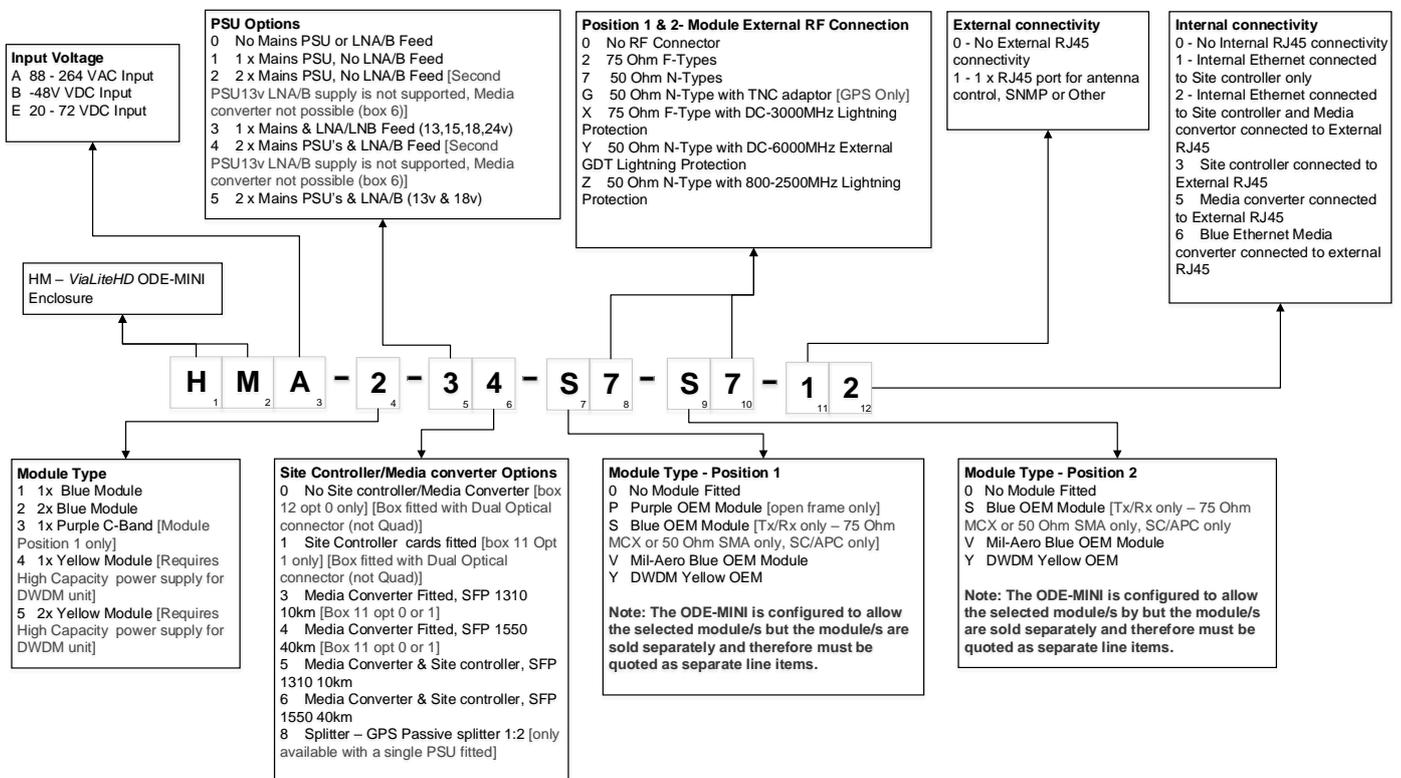- Dual redundant PSUs supported

Enclosure dimensions

Technical specifications

Parameter	ODE-MINI Enclosure
Number of RF channels	2x Links to 6 GHz or 1x C-Band Link to 7.5 GHz
IP Rating	IP65
External Dimensions	220 x 155 x 95 mm
Weight	2.65 kg
Material	Cast aluminium
RF Input / Output Connectors	N-Type female weatherproof
Optical Fiber Connections	Quad or Duo single mode connector Neutrik
Power Supply Connections	Neutrik power connector
PSU Options	Single or dual redundant
Supply Voltage Options	88-264 VAC
Operating Temperature	-20 to +60 °C
Storage Temperature	-40 °C to +70 °C
Climate Control	Humidity ventilator
Parameter	**LNB Voltage Source Specifications**
Output Voltage	13,15,18, 24 VDC
Output Power	13.5 W
Voltage Tolerance	+/- 2 %
Line Regulation	+/- 0.5 %
Load Regulation	+/- 0.5 %
Ripple & Noise	< 120 mV P-P

Product configurator

Input Voltage
A 88 - 264 VAC Input
B -48V VDC Input
E 20 - 72 VDC Input

PSU Options
0 No Mains PSU or LNA/B Feed
1 1 x Mains PSU, No LNA/B Feed
2 2 x Mains PSU, No LNA/B Feed [Second PSU13v LNA/B supply is not supported, Media converter not possible (box 6)]
3 1 x Mains & LNA/LNB Feed (13,15,18,24v)
4 2 x Mains PSU's & LNA/B Feed [Second PSU13v LNA/B supply is not supported, Media converter not possible (box 6)]
5 2 x Mains PSU's & LNA/B (13v & 18v)

Position 1 & 2- Module External RF Connection
0 No RF Connector
2 75 Ohm F-Types
7 50 Ohm N-Types
G 50 Ohm N-Type with TNC adaptor [GPS Only]
X 75 Ohm F-Type with DC-3000MHz Lightning Protection
Y 50 Ohm N-Type with DC-6000MHz External GDT Lightning Protection
Z 50 Ohm N-Type with 800-2500MHz Lightning Protection

External connectivity
0 - No External RJ45 connectivity
1 - 1 x RJ45 port for antenna control, SNMP or Other

Internal connectivity
0 - No Internal RJ45 connectivity
1 - Internal Ethernet connected to Site controller only
2 - Internal Ethernet connected to Site controller and Media convertor connected to External RJ45
3 Site controller connected to External RJ45
5 Media converter connected to External RJ45
6 Blue Ethernet Media converter connected to external RJ45

HM – *ViaLiteHD* ODE-MINI Enclosure

H	M	A	–	2	–	3	4	–	S	7	–	S	7	–	1	2
1	2	3		4		5	6		7	8		9	10		11	12

Module Type
1 1x Blue Module
2 2x Blue Module
3 1x Purple C-Band [Module Position 1 only]
4 1x Yellow Module [Requires High Capacity power supply for DWDM unit]
5 2x Yellow Module [Requires High Capacity power supply for DWDM unit]

Site Controller/Media converter Options
0 No Site controller/Media Converter [box 12 opt 0 only] [Box fitted with Dual Optical connector (not Quad)]
1 Site Controller cards fitted [box 11 Opt 1 only] [Box fitted with Dual Optical connector (not Quad)]
3 Media Converter Fitted, SFP 1310 10km [Box 11 opt 0 or 1]
4 Media Converter Fitted, SFP 1550 40km [Box 11 opt 0 or 1]
5 Media Converter & Site controller, SFP 1310 10km
6 Media Converter & Site controller, SFP 1550 40km
8 Splitter – GPS Passive splitter 1:2 [only available with a single PSU fitted]

Module Type - Position 1
0 No Module Fitted
P Purple OEM Module [open frame only]
S Blue OEM Module [Tx/Rx only – 75 Ohm MCX or 50 Ohm SMA only, SC/APC only]
V Mil-Aero Blue OEM Module
Y DWDM Yellow OEM

Note: The ODE-MINI is configured to allow the selected module/s but the module/s are sold separately and therefore must be quoted as separate line items.

Module Type - Position 2
0 No Module Fitted
S Blue OEM Module [Tx/Rx only – 75 Ohm MCX or 50 Ohm SMA only, SC/APC only]
V Mil-Aero Blue OEM Module
Y DWDM Yellow OEM

Note: The ODE-MINI is configured to allow the selected module/s by but the module/s are sold separately and therefore must be quoted as separate line items.

ViaLite COMMUNICATIONS ® CE FC

Popular products

HMA-2-35-S7-S7-12
ViaLiteHD ODE-MINI, 88-264 VAC input, config. for 2 Blue OEM modules, 1 mains PSU with LNA/LNB feed (13v, 15v, 18v, 24v), Media Converter & Site controller, SFP 1310 10km, Quad Optical connector, Blue OEM module- position 1, 50Ohm N-Type RF connector/s. Blue OEM module- position 2, 50Ohm N-Type RF connector/s. Ext. connectivity 1 off RJ45 port for antenna control, SNMP or other. Int. Ethernet connected to site controller & media converter connected to ext. RJ45.

Separately ordered accessories

Fiber Termination Box (4-Way)

To ease the installation process any multicore optical fiber can be terminated in the accompanying patch box. As standard, the patch cable presents SC/APC connections within the patch box (see picture).

Internal termination options
54886 – SC/APC to FC/APC
54888 – SC/APC to SC/APC
54889 – SC/APC to LC/APC

Popular ODE-MINI optical cable options

Quad waterproof light duty (for use with up to 2 Blue OEM Modules and a Media Converter)
F04-L-3-8-0001   1 m fiber cable, with Quad Waterproof connector to SC/APC connector
F04-L-3-8-0002   2 m fiber cable, with Quad Waterproof connector to SC/APC connector
F04-L-3-8-0005   5 m fiber cable, with Quad Waterproof connector to SC/APC connector
F04-L-3-8-0010   10 m fiber cable, with Quad Waterproof connector to SC/APC connector

Duo waterproof light duty (for use with up to 2 Blue OEM Modules and <u>NO</u> Media Converter)
F02-L-3-8-0001   1 m fiber cable, with Duo Waterproof connector to SC/APC connector
F02-L-3-8-0002   2 m fiber cable, with Duo Waterproof connector to SC/APC connector
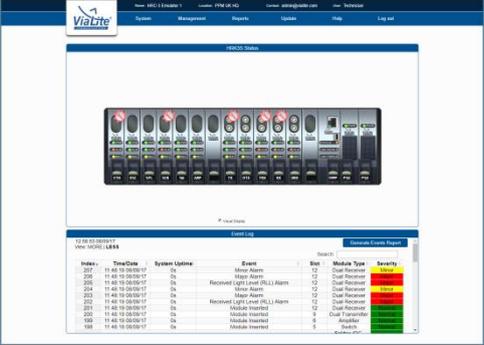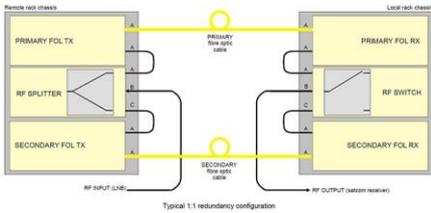F02-L-3-8-0005   5 m fiber cable, with Duo Waterproof connector to SC/APC connector
F02-L-3-8-0010   10 m fiber cable, with Duo Waterproof connector to SC/APC connector

More cable options available.

Supporting products

Type	Key Features
SNMP/Web Browser Card 	• 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 Ethernet link
Dual Redundancy 	• 1:1 redundancy for L-Band • Maximises link up-time • Can be used to backup copper coax • Manual and automatic control via SNMP • Flexible configuration options • Other redundancy options available
Rack Chassis 	• 3U accepts up to 13 RF or Support cards, plus an SNMP card and dual power supplies • A 1U chassis accepts up to 3 RF or Support cards or 2 cards and an SNMP card (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 SNMP 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 monitor and control (M&C) systems