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ViaLiteHD® – GNSS Antennas

GNSS Antennas and Mounting Kit

- **2 Antennas available:**
  - **High Performance Antenna**
  - **GNSS Timing Antenna**
- **Support for GPS, GLONASS, GALILEO and BEIDOU**
- **Kit for wall mounting and pole mounting included**
- **Compatible with all *ViaLite* GPS Links**

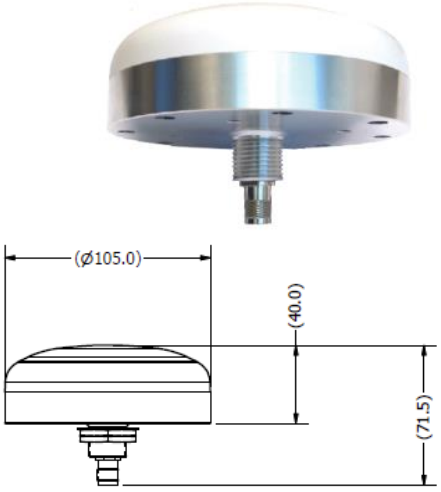
ViaLiteHD GNSS timing reference antennas are specifically designed for long-lasting, trouble-free deployments in a variety of demanding applications. The low noise, high gain amplifiers are well suited to address attenuation issues associated with applications requiring higher loss RF coaxial cable or weaker signal locations. All antennas include advanced filtering circuitry to provide superior out-of-band rejection and interference management. Mechanically, they are IP rated for harsh outdoor conditions and dome shaped to assist water run-off. These antenna are a good accompaniment to the ***ViaLiteHD*** GPS transmitter units which can also provide the necessary DC voltage feed.

76940

This is the High Performance antenna with high gain and multi-GNSS capabilities.

GNSS systems supported:

- 1150-1290 MHz
  - GPS L2 and L5
  - GALILEO E5A, E5B and E6
  - GLONASS L2 and L3
  - BEIDOU B2 and B3
- 1500-1615MHz
  - GPS L1
  - GALILEO E1
  - GLONASS L1
  - BEIDOU B1 and B1-2.



76941

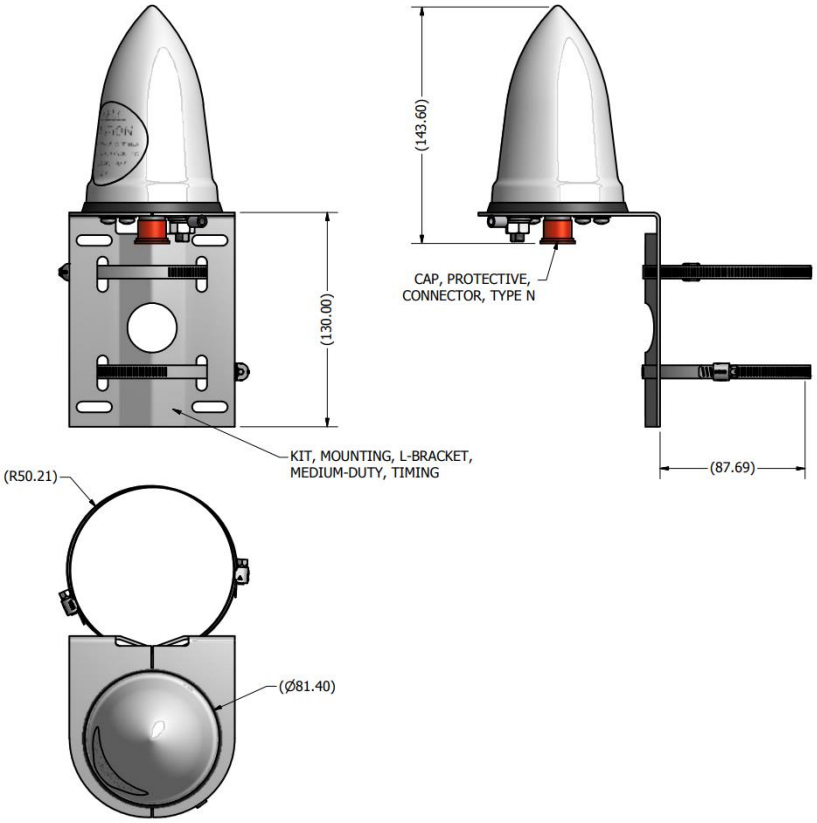
This is a GNSS Timing Antenna with low noise and high gain designed for long lasting installations. It also features integrated on-board lightning protection removing the need for in-line surge suppressors downstream

GNSS systems supported:

- 1565 – 1585 MHz
  - GPS L1
  - GALILEO E1
  - GLONASS L1
  - BEIDOU B1

Mounting Hardware

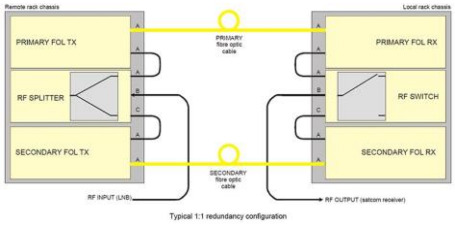
Mounting Kit L-Bracket Medium-Duty, PPM Part Number 51063



Technical specification

	Units	76940	76941
Constellations: GPS GALILEO GLONASS BEIDOU		 L1,L2,L5 E1,E5A,E5B,E6 L1,L2,L3 B1,B1-2,B2,B3	 L1 E1 L1 B1
LNA gain	dB	40 dB ±5 dB	40 dB ± 4 dB GPS L1/GALILEO E1 38 dB ± 4 dB GLONASS L1/BEIDOU B1
Nominal Impedance	Ohm	50	50
Polarization		Right hand circular	Right hand circular
VSWR	(typ)	<2.0:1	<2.0:1
Noise Figure	dB (typ)	3.0	<2.5
DC Voltage	V DC	2.5-12	3.3-9
DC Current	mA	37 (typ) 50 (max)	<40
Out of Band rejection		> 80 dB @ f < 1050 MHz > 30 dB @ f < 1125 MHz > 70 dB @ f > 1350 MHz > 70 dB @ f < 1450 MHz > 30 dB @ f > 1690 MHz > 80 dB @ f > 1730 MHz	≥ 60 dB @ ± 50 MHz off center frequency
Antenna Dimension		105.0 mm D x 40.0 mm H 4.13" D x 1.57" H	81 mm D x 184 mm H 3.20” D x 7.25” H
Antenna Weight		0.386 kg 0.85 lbs	0.34 kg 0.75 lbs
Connector		TNC Female	N-type Female
Included with the Antenna		51063 – L-Bracket mounting kit Coax Cable 1m TNC to N-Type	51063 – L-Bracket mounting kit

Accessories

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 modules • 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
Dual Redundancy  Typical 1:1 redundancy configuration	• 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 	• 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