

VHF30512DB

VHF/UHF vehicle whip, monopole/dipole, 1.53 m,
30-88 MHz, 225-512 MHz

Tactical Antennas: Vehicle Mount



Features

- 30 - 88 MHz and 225 - 512 MHz
- L1 and L1/L2 GPS option
- 2-ports version for VHF and UHF 3-port version for VHF, UHF and GPS
- Designed for operation on all kinds of vehicles including armoured vehicles
- Suitable for operation on shelters and to be mounted on masts or in other permanent installations
- Rugged high quality antenna with a durable construction
- NATO flange base with spring
- Mast mount bracket option
- UHF antenna element located at the top of the whip for maximum range
- VHF requires a ground plane

Electrical Specifications

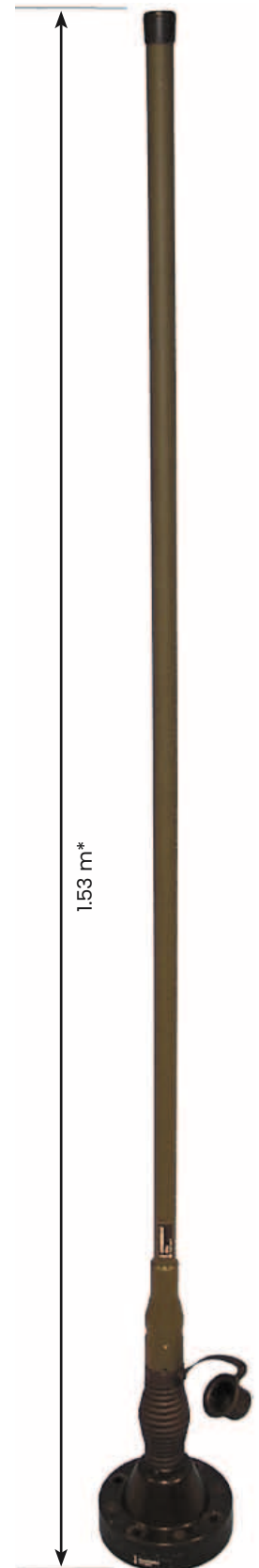
Frequency Range	VHF: 30 - 88 MHz UHF: 225 - 512 MHz GPS: L1/L2 1575/1227 ± 10 MHz (option)
VSWR	VHF: < 3.5 UHF: < 3.5
Port-to-Port Isolation	> 35 dB
Nominal Impedance	50 Ω
Power Rating	VHF: 100 W CW UHF: 50 W CW
Gain	VHF: - 5 to 1 dB rel. ¼ whip UHF: - 3 to 1.5 dBi
Radiation Pattern	Horizontal Plane: Omnidirectional
Polarisation	Vertical
Connector	VHF: TNC female (others on request) UHF: N female (others on request) GPS: SMA female (option)

Mechanical Specifications

Design	VHF: End fed monopole UHF: Centre fed monopole Radiating element completely enclosed in epoxy/ fibreglass laminate. Metal parts are brass and stainless steel.
Length*	1.53 m*
Weight	Whip: 1.1 kg Base: 2.6 kg*
Wind Rating	55 m/s
Finish	Polyurethane lacquer
Temperature Range	- 55°C to + 71°C

* Weight with standard NATO 4 hole vehicle base. Base options specified overleaf.

Nominal dimensions subject to manufacturing tolerances.



Standard version with
NATO 4-hole vehicle base
(Type A)

Electrical Specifications (optional GPS)

Configuration	L1 GPS	L1/L2 GPS
Frequency Band	1575.42 ± 10 MHz	L1 1572.42 ± 10 MHz L2 1227.60 ± 10 MHz
Supply Voltage	2.7 - 5.5 V	2.7 - 5.5 V
Pre-amplifier	25 dB @ 5 V	25 dB @ 5 V
Supply Current	< 60 mA	< 60 mA
Polarisation	RHCP	RHCP
Connector	SMA female	SMA female

Vehicle and Shelter Bases

Bases are available to suit most vehicle and shelter installations. Bases are available with optional L1 and L1/L2 GPS. All bases are supplied with a protective top cap.

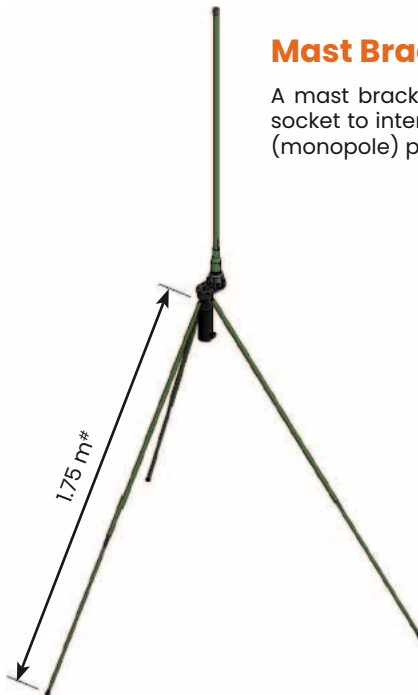


NATO 4-hole Spring Base
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 240 mm

NATO 4-hole Spring GPS Base
L1 & L1/L2 GPS available
4 x M10 or 3/8" Bolts
on 114 mm PCD
Base diameter 140 mm
Base height 262 mm

Mast Bracket Kit (option)

A mast bracket option is available to suit mast and shelter installations. The mast bracket has a 50 mm socket to interface with a mast or pole and is supplied with a radial kit to provide a groundplane for the VHF (monopole) part of the antenna.



Mast Mount Bracket
50 mm Socket



Upper Groundplane Rod (x3)



Lower Groundplane Rod (x3)

Cable Options

Comrod has a wide range of cable assemblies to suit customer requirements. Cable type, connector type and length options are available.

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All specifications are subject to change without notice

The information contained herein is for reference only and does not constitute a warranty of performance

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