



GrAnt-G3T/G3

GrAnt-G3T is a versatile high performance antenna with GPS L1/L2/L5; Glonass L1/L2; Galileo L1/E5

140x140x62 mm, 0.52 kg

- Protection Against ESD
- Have good vibration and shock resistance

GrAnt-G3 have similar case as GrAnt-G3T with L1 GPS/Glonass/Galileo capability 140x140x62 mm, 0.45 kg

• All GrAnt-G3T options valid for this antenna

Possible design options:



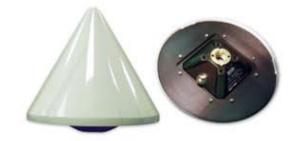
TNC side view connector (regular design)



N-type connector (side view)



TNC on center for pipe mounting



Snow Cone options

- 3 different mounting method available: female thread 5/8"-11 female thread 1"-14
 4 holes M5 φ50
- Availble integration design GrAnt-G3T with reciever boards TR-G2T and TR-G3 or IMU

TyrAnt-G2T/G3

TyrAnt is our GrAnt antenna integrated with our TR-G3 or TR-G2T OEM board. It is the first and only smart antenna with triple frequency GPS with Galileo option.

140x140x62 mm, 0.6 kg

 Communication is provided via RS422 or CAN interface.



GyrAnt

GyrAnt is the GrAnt antenna integrated with Intertial Measurement Unit (IMU) consisting of three accelerometers and three gyros on three axes.

140x140x62 mm, 0.6 kg

• Communication is provided via RS422 or CAN interface.



AirAnt

AirAnt is designed to be mounted on aircrafts and applications where low profile and aerodynamic shape are desired. Metal flat ground requaed in aplication.

120x74x44.5 mm, 0.32 kg

 GPS L1/L2/L5 Glonass L1/L2 Galileo L1/E5



TriAnt

TriAnt is small, thin, and rugged high performance GNSS antenna. It is ideal for applications like navigation and surround anennas of TRIUMPH-4X. With GPS L1/L2/L5; Glonass L1/L2; Galileo L1/E5

128x128x55 mm, 0.47 kg

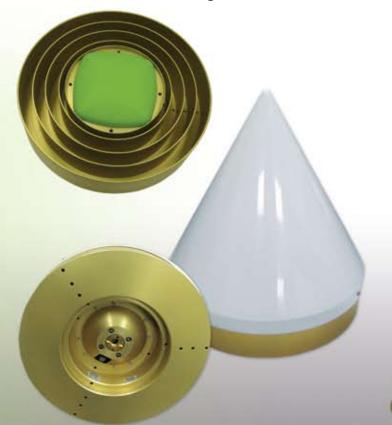
• 2 different mounting options: female thread 1"-14 3 holes M5 ∮50



RingAnt-G3T

It is our GrAnt antenna mounted on our own choke ring ground plate. With GPS L1/L2/L5; Glonass L1/L2; Galileo L1/E5

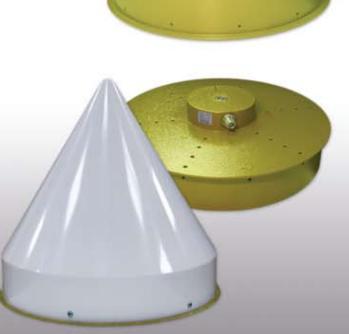
\$\phi 326x88 \text{ mm, 2.71 kg}\$



RingAnt-DM

Traditional choke ring with Galileo option and Dorne-Margolin element.

• GPS L1/L2/L5 Glonass L1/L2 Galileo L1/E5/E6





ALPHA

- INTERNAL BATTERY
- CHARGER
- GSM
- BLUETOOTH

FOR: TR-G3, TR-G2T. TR-G3T



Front panel connectors:

Power Input + serial port A + USB + Antenna

Back panel connectors:



Can have up to 3 connectors of 1-PPS • Event Marker • IRIG • GSM Antenna (without Bluetooth antenna).

When Bluetooth antenna is installed only one extra connector can be installed.

Example 1: BT Antenna + GSM Antenna Example 2: 1-PPS output + Event Marker + GSM Antenna

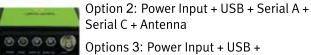
DELTA

FOR: TRE-G2T, TRE-G3T, Duo-G2, Duo-G2D, QUATTRO-G3D



Front panel connectors:

Option 1: Power Input + Serial A + Serial B + Serial C + Antenna



Serial C + Antenna

Options 3: Power Input + USB + Serial A + Serial C + Ethernet

Back panel connectors:



Can have up to 4 connector of 1-PPS A 1-PPS B · Event A · Event B · Antenna · CAN · IRIG B



Example: 1-PPS A + 1-PPS B + Event A + Event B



SIGMA

INTERNAL BATTERY

QUATTRO-G3D



Front panel connectors:

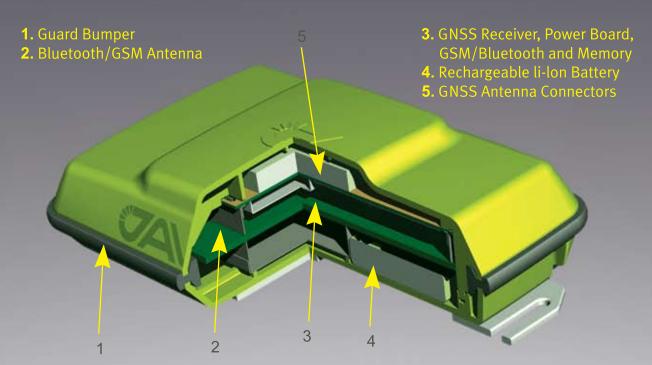
Can have Power Input • Second Power Input • USB • Serial A • Serial B or C • Ethernet

and up to 4 connectors of 1-PPS A · 1-PPS B · Event A · Event B · Antenna · CAN · IRIG · RS422

Back panel connectors:

Can have SIM door and GSM Antenna connector and up to 4 connectors of 1-PPS A · 1-PPS B · Event A · Event B · Antenna · IRIG · Modem Antenna

Example: GSM Antenna + SIM door + 1-PPS A + 1-PPS B + Event A + Modem Antenna



216-channel TRIUMPH

Tracking Specification

Tracking Channels GPS L1/Galileo E1/GLONASS L1

Signals Tracked L1 C/A, Code & Carrier

Power Specification

Internal Li-Ion battery (3.7 V, 1.05 Ah) with internal charger

Operating modes Standby mode

Call mode

Input Voltage +4.5 to +6.5 volts

GNSS Antenna Specifications

GNSS Antenna

Internal

Microstrip (Zero Centered)

Ground Plane

Antenna on a flat ground plane

Radio Specifications

GSM/GPRS Module

Antenna Type

Internal GSM/GPRS quad-band module, GPRS

Class 10

GSM/GPRS Antenna

Internal

1/0

Internal Communication Port Bluetooth V2.0+EDR Class 2 supporting SPP Slave and Master Profiles

External Power port 1 port **GSM Status Indicator** One LED

Performance Specifications

Static, Fast Static Accuracy Horizontal: 5 cm + 0.5 ppm * base_line_length Vertical: 5 cm + 0.5 ppm * base_line_length

Kinematic Accuracy

Horizontal: 5 cm +1 ppm * base_line_length Vertical: 5 cm +1.5 ppm * base_line_length

RTK(OTF) Accuracy

Horizontal: 5 cm +1 ppm * base_line_length Vertical: 5 cm + 1.5 ppm * base_line_length

DGPS Accuracy < 0.25 m Post Processing,

< 0.5 m Real Time

Cold Start

<65 seconds

Warm Start Reacquisition <5 seconds <1 second

Memory & Recording

Internal Memory

Up to 256 MB of onboard non-removable memory for data storage

Raw Data Recording

Up to 100 times per second (100 Hz)

Data Type

Code and Carrier from GPS L1/Galileo E1/GLONASS L1

Environmental Specifications

Enclosure

High impact plastic, waterproof

Operating Temperature -4° C to +55° C

Dimensions W: 79 mm x H: 33 mm x D: 131 mm

Weight 210 g

TR/TRE **Evaluation Kit**

The evaluation and development kit for all TR and TRE Javad GNSS OEM boards

Include 4 items:

- **TR-G3T Cross Adapter**
- TRE-Interface Adapter
- Power cable
- **4 TNC-MMCX RA** 0,19 m RF cable









