JAMMING AND INTERFERENCE ARE HERE TO STAY
Jamming and interference, whether intentional or unintentional, can seriously degrade GPS position, navigation and timing availability—even to the point of total solution denial. Jammers create excessive noise, overpowering the low power GPS signals and saturating the electronics in a GPS receiver front end. Methods are needed to suppress this interference so your GPS receiver continues to operate.

BATTLE PROVEN IN SMALLER AND LIGHTER ENCLOSURE
The GAJT-410ML is a new design that builds on our legacy, battle-proven anti-jam technology in a smaller enclosure. It combines an antenna array and null forming electronics into an enclosure that is suitable for installation on a wide range of land vehicles.

EASY TO INTEGRATE
GAJT-410ML is designed for size constrained applications where it is preferable to mount the combined antenna and electronics outside the vehicle. The GAJT-410ML utilizes the existing Radio Frequency (RF) cable to supply data and power directly to the unit to reduce the need for costly platform modifications.

SITUATIONAL AWARENESS
By installing the Power Injector Data Converter (PIDC™), users can access the jammer status and direction finding capabilities of the GAJT-410ML across the single RF cable. The PIDC is supplied in an enclosure and can be easily installed inside land vehicles. It is available to license for installation into third-party equipment.

HOW IT WORKS
GAJT mitigates interference by creating nulls in the antenna gain pattern in the direction of jammers, providing significant anti-jam protection even in dynamic multi-jammer scenarios. The output of the GAJT-410ML is a standard Radio Frequency (RF) feed, suitable for input to legacy GPS receivers. Clean DC power is supplied via the single RF cable when using the PIDC. Integration to your GPS receiver is seamless.

BUILT FOR THE FUTURE
The wide bandwidth ensures compatibility with M-Code GPS.
PERFORMANCE

GNSS Signals
GPS L1/Galileo E1  1575.42 MHz ±12 MHz
GPS L2  1227.6 MHz ±12 MHz

INTERFERENCE REJECTION

Simultaneous L1 and L2
Typical Wideband Suppression  40 dB
Number of Simultaneous Nulling Directions  3

ANTENNA ARRAY

Built in 4 Element CRPA

GAJT-410 CRPA PORTS

1 x SMA (50 Ω) female  RF/Data/Power

PIDC PORTS

1 x ODU 12 pin female  Data/Power
1 x SMA (50 Ω) female  RF
1 x SMA (50 Ω) female  RF/Data/Power

PHYSICAL AND ELECTRICAL

Power (system)
Power Consumption  18 W
Input Voltage  +10 to +32 VDC

GAJT-410ML CRPA
» Dimensions  139.8 diameter × 95 mm
» Weight  1.7 kg

GAJT-410ML Hardware Color Options
» Green Chemical Agent Resistant Coating (CARC)
» Tan Chemical Agent Resistant Coating (CARC)

PIDC
» Dimensions  85.5 W × 85 L × 31.5 H mm
» Weight  450 g

ENVIRONMENTAL

Temperature
Operating  -40°C to +71°C
Storage  -55°C to +85°C

Humidity
MIL-STD-810G(CH1) 507.6, Proc. II

Altitude
MIL-STD-810G(CH1), 500.6

Corrosion
MIL-STD-810G(CH1), 509.6
MIL-STD-810G(CH1), 518.2
MIL-STD-810G(CH1), 504.2

Vibration
MIL-STD-810G(CH1), 514.7

Shock
MIL-STD-810G(CH1), 516.7
IEC 60068-2-27 Ea

Water
MIL-STD-810G(CH1), 512.6
IEC 60529 IPX9K
IEC 60529 IPX7

Sand & Dust
MIL-STD-810G(CH1), 510.6
IEC 60529 IP6X

Solar Radiation
MIL-STD-810G(CH1), 505.6

Electromagnetic Compatibility
MIL-STD-461G

COMPLIANCE

FCC, ISED, CE

ACCESSORIES

» Combined data and power cable
» NATO Mount Adapter
» Pole Mount Adapter

EXPORT APPROVALS

Canadian Controlled Goods

For more information about GAJT, visit www.novatel.com/GAJT or email GAJT@novatel.com

novatel.com
sales@novatel.com
1-800-NOVATEL (U.S. and Canada)
or 403-295-4900
Europe 44-1993-848-736
SE Asia and Australia 61-400-883-601

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