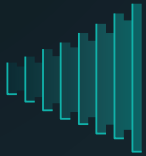


# GNSS INLINE AMPLIFIERS



**AMPLIFIED  
SIGNAL LOSS  
SOLUTIONS**



**CONNECTIVITY  
OPTIONS**



**SMALL FORM  
FACTOR**



**MULTI-FREQUENCY  
& CONSTELLATION**



## SIGNAL LOSS ISSUES

GNSS signals become attenuated as they travel through long cable runs, this reduced signal gain can limit the ability of the receiver to provide a position solution to the point where the signal is completely undetectable or below the ideal strength required.

## AMPLIFIED SOLUTIONS

The level of signal loss depends on the quality and length of cable used. A cable length exceeding 30 metres can result in a signal loss issue. StarLink inline amplifiers address this problem by amplifying the GNSS signal to provide increased gain, reducing the effects of attenuation.

## INTERFERENCE MITIGATION

Weak GNSS signals are vulnerable to interference. StarLink inline amplifiers filter and reject unwanted interference, reducing the effect of internally generated electrical noise, whilst enabling GNSS signals to pass through.

## RUGGED AND ADAPTABLE

StarLink inline amplifiers are made with gold plated brass and rugged and watertight packaging. They are available with SMA, TNC, BNC, or N connectors. Installation is a simple process, just attach the amplifier in line with your antenna cable. The amplifier uses the same power as the antenna so no extra power source is required. All StarLink products come with a full, one year parts and labour warranty.

## TECHNICAL SPECIFICATIONS

### MODEL L1L2

(GPS L1/L2/L5, GLONASS G1/G2/G3, GALILEO E1/E5/E6, BEIDOU B1 B2/B3, IRNSS, QZSS L6, SBAS, L-BAND)

#### 13dB Gain +/- 2dB

LA-12-L1L2-N  
LA-12-L1L2-S  
LA-12-L1L2-B  
LA-12-L1L2-T  
LA-12-L1L2-TMF  
LA-12-L1L2-BT  
LA-12-L1L2-TS

N type, female  
SMA type, female  
BNC type, female  
TNC type, female  
TNC type, male to female  
BNC type to TNC type female  
TNC type to SMA type female

#### 20dB Gain +/- 1dB

LA-21-L1L2-N  
LA-21-L1L2-S  
LA-21-L1L2-B  
LA-21-L1L2-T  
LA-21-L1L2-TMF  
LA-21-L1L2-BT  
LA-21-L1L2-TS

N type, female  
SMA type, female  
BNC type, female  
TNC type, female  
TNC type, male to female  
BNC type to TNC type female  
TNC type to SMA type female

### MODEL 1575

(GPS L1, GLONASS G1, GALILEO E1, BEIDOU B1, SBAS, L-BAND)

#### 15dB Gain +/- 1dB

LA-12-1575-100-N  
LA-12-1575-100-S  
LA-12-1575-100-T  
LA-12-1575-100-B  
LA-12-1575-100-TMF  
LA-12-1575-100-BT  
LA-12-1575-100-TS

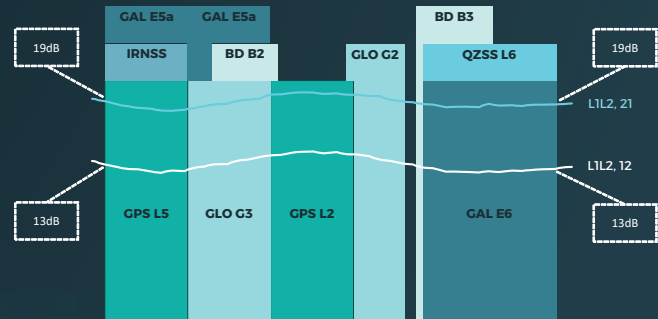
N type female both ends  
SMA type female both ends  
TNC type female both ends  
BNC type, female  
TNC type, male to female  
BNC type to TNC type female  
TNC type to SMA type female

#### 20dB Gain +/- 1dB

LA-21-1575-100-N  
LA-21-1575-100-S  
LA-21-1575-100-T  
LA-21-1575-100-B  
LA-21-1575-100-TMF  
LA-21-1575-100-BT  
LA-21-1575-100-TS

N type female both ends  
SMA type female both ends  
TNC type female both ends  
BNC type, female  
TNC type, male to female  
BNC type to TNC type female  
TNC type to SMA type female

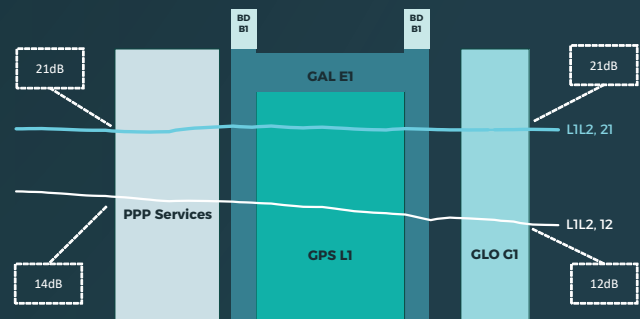
### dB gain from StarLink L1L2 Inline Amplifiers – Lower Bands



## GENERAL INFORMATION

- / Inline Amplifiers with TNC connectors are 3.770" in length. Length will vary slightly with "N" and "SMA" connectors installed.
- / Typical Noise figure for 1575 Inline Amplifiers is <3dB.
- / Typical Noise figure for L1L2 Inline Amplifiers is <4dB.
- / Input voltage for all models is from 3.3 to 28 Vd.c.
- / Current consumption is <36mA (typ. 25mA).
- / Operating temperature is -40°C (-40°F) to +70°C (158°F)
- / Storage temperature is -55°C (-67°F) to +85°C (185°F)
- / Relative humidity 0 - 100% condensing.
- / IP Rating: IP67
- / Certified to Safety Standards UL 62368-1/CSA No. 62368-1 (currently 1575 models only)

### dB gain from StarLink L1L2 Inline Amplifiers – Upper Bands



### dB gain from StarLink 1575 Inline Amplifiers

