ROGER™
GNSS repeater

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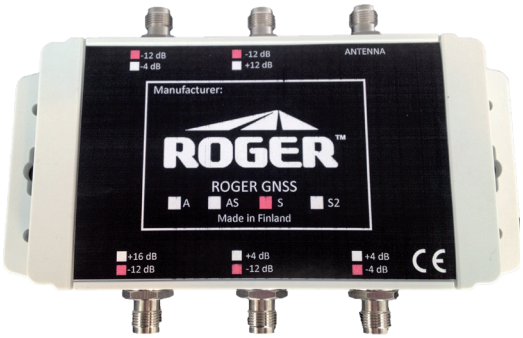
New IP67 Product Range

GNSS-L1G1 and GNSS-L1L2-67D1

IP67 range Roger repeaters cover GPS L1&L2 and GLONASS satellite signals. IP67 products are easy to install even in harsh conditions. This makes them ideal for places like car parks, tunnels or any wet and dusty places.



GNSS-S, GNSS-S2, GNSS-AS and GNSS-A

With the ROGER™ GNSS signal splitters and amplifiers it is easy to extend distance from an antenna or add more repeaters to extend coverage in a building.

DC/DC and AC/DC Power distributor

Roger™ GNSS DC Power Distribution is designed to be used with Roger GNSS repeaters. Roger™ GNSS AC/DC Power Distribution can provide power up to 5 Roger GNSS repeaters from one AC power outlet.

Read more about our solutions from www.gps-repeating.com

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Roger GNSS DC Power Distribution
GNSS-DCPD5-IP67

Flexible power for a wide range of GNSS applications

Roger™ GNSS DC Power Distribution is designed to be used with Roger GNSS repeaters. Roger™ GNSS DC Power Distribution can provide power up to 5 Roger GNSS repeaters from one AC power outlet.

Applications:
- **IP67 DC power supply for harsh conditions**
- **Aircraft hangars, parking areas etc.**
- **Installations with multiple repeaters**

Main Features:
- **Power cables available in 5, 10, 20 and 50 meters**
- **Power indicator**
- **Dry contact for supervising the status of the power supply**
- **5 x 12 VDC 500 mA output**

Technical information:

Size:	200*119*39mm
Weight:	220 g
Operating temperature:	-40 - +75°C
Casing:	IP67
Connectors:	5 x female M8 and 1 x male M8
Input:	12 VDC max 2.5 A
Output:	5 x 12 VDC 500 mA

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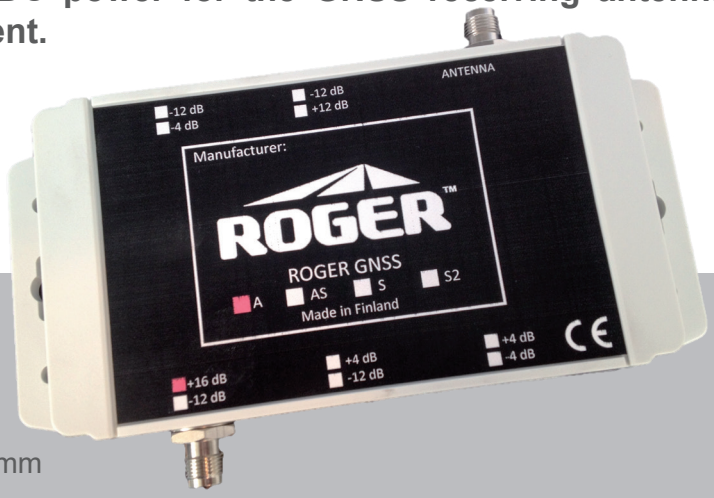
Roger GNSS Line Amplifer
GNSS-A-IP67

Key Features

Roger™ GNSS Line Amplifier is used to allow longer cable runs for GNSS Repeaters.

It has a gain of +16dB at the GPS L1,L2 and GLONASS frequency bands and it includes a filter to remove unwanted signals that may have entered the cable at some point.

Amplifier is powered through the output signal cable by the Roger™ GNSS Repeater and also passes on DC power for the GNSS receiving antenna or an another Roger™ GNSS equipment.



Technical information:

Size:	200*119*39mm
Weight:	240 g
Operating temperature:	-40 - +75°C
Casing:	IP67
Connectors:	TNC female input/TNC female output
Frequency range:	1200-1700 MHz
Noise figure:	<5dB
Impedance:	50Ω
Power supply:	The amplifier is powered through the output signal cable by the ROGER GNSS Repeater
Gain:	+16dB

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ROGER GNSS Amplifier & Splitter GNSS-AS-IP67

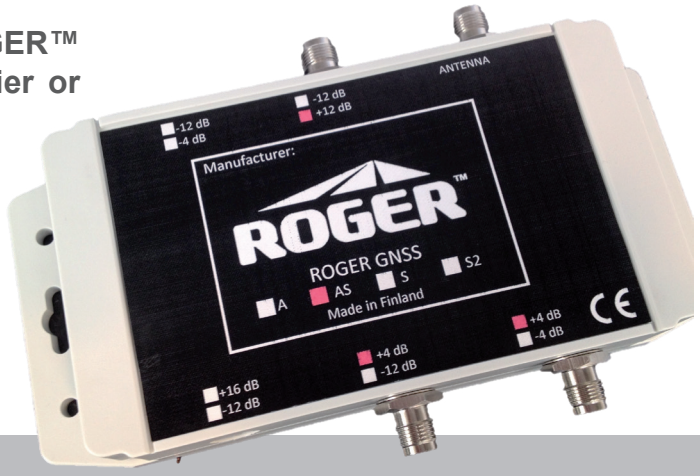
Key Features

ROGER™ GNSS Amplifier & Splitter is a combined signal splitter and line amplifier that can transmit amplified signal to up to three separate Roger GNSS repeater units.

The Amplifier & Splitter has a gain of 1x +12dB and 2x +4dB at the GPS L1,L2 and GLONASS frequency bands and it includes a filter to remove unwanted signals that may have entered the cable at some point.

It also passes on DC power for the ROGER™ GNSS Splitter, an another GNSS line amplifier or GNSS receiving antenna.

The Amplifier & Splitter is easy to use and permits a wide range of system configurations.



Technical information:

Size:	200*119*39mm
Weight:	363 g
Operating temperature:	-40 - +75°C
Casing:	IP67
Noise figure:	<3.8dB
Impedance:	50Ω
Connectors:	TNC female input, 3xTNC female output 1 x +12 dB and 2 x +4 dB
Power supply:	The amplifier&splitter is powered through the output / DC input connector by the ROGER GNSS Repeater
Frequency range:	1200-1700 MHz

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Instant GPS/GLONASS service indoors
Roger GNSS-L1G1-IP67

Key Features

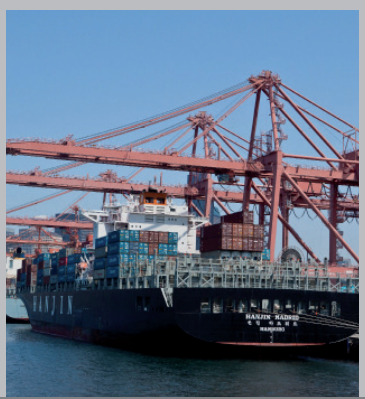
- Automatic gain limitation
- Oscillation prevention with indicator
- Maximal coverage for CE approved repeater
- Instant GPS/GLONASS fix when moving indoors and outdoors
- Full product family with repeaters, amplifiers and splitters

Emergency stations and depots

Asset management in control room

Tunnels and traffic stations

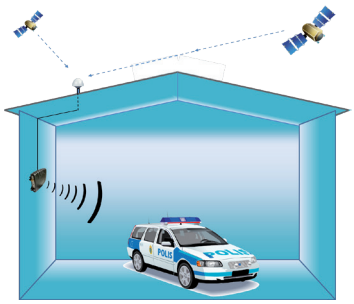
Ships and vessels



Read more about our solutions from www.gps-repeating.com

How does Roger repeater work?

ROGER GPS/GLONASS repeater operates by receiving satellite signals with an antenna located outside the building and re-radiating the signals to the indoor area or covered space.



Use of re-radiated signals indoors means that GPS/GLONASS receiver is tracking the current status and signal from the satellites. When a GPS/GLONASS receiver is moved from covered area to outdoors and vice versa, the receiver is instantly tracking the location instead of time consuming acquisition.

Technical information

Frequency:	GPS L1 (1.57542 GHz) GLONASS L1 (1.602 GHz)
Size:	200*89*39 mm
Weight:	274 g
Casing:	IP67
Overal gain:	> 40 db
Adjustable Gain:	0-40 db
Impedance:	50 Ohm
Input connector:	TNC-female
Operating temperature:	-40 - +75 °C
Power supply:	+12VDC/300mA
Indoor coverage:	upto 50 meters
Antenna power output:	+ 5 VDC, 100 mA
TX Antenna gain:	max. +4dBd, RHCP polarisized

ROGER™ GNSS products:

Latest Product information can be found on http://www.gps-repeating.com/

or email us to

roger@gps-repeating.com

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Instant GPS L1/L2 service indoors

GNSS-L1L2-67D1

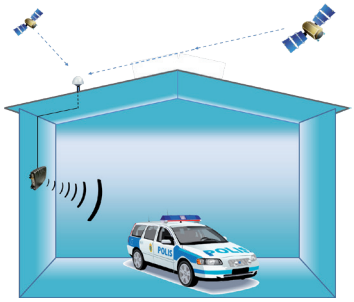
Key Features

- Automatic gain limitation
- Oscillation prevention with indicator
- Maximal coverage for CE approved repeater
- Instant GPS L1/L2 fix when moving indoors and outdoors
- Full product family with repeaters, amplifiers and splitters
- Both GPS L1 and L2 signals in one box

Read more about our solutions from www.gps-repeating.com

How does Roger GPS L1/L2 repeater work?

ROGER GNSS repeater operates by receiving GPS satellite signals with an antenna located outside the building and re-radiating the signals to the indoor area or covered space.



Use of re-radiated signals indoors means that GPS receiver is tracking the current status and signal from the satellites. When a GPS receiver is moved from covered area to outdoors and vice versa, the receiver is instantly tracking the location instead of time consuming acquisition.

Technical information

Frequency:	GPS L2 (1227.60 MHz) GPS L1 (1575.42 MHz)
Size:	244*165*64 mm
Weight:	610 g
Casing:	IP67
Overal gain:	> 40 db
Adjustable Gain GPS L1:	0-40 db
Adjustable Gain GPS L2:	0-40 db
Impedance:	50 Ohm
Input connector:	TNC-female
Operating temperature:	- 40 - +75 °C
Power supply:	+12VDC/600mA
Indoor coverage:	upto 50 meters
Antenna power output:	+ 5 VDC, 100 mA
TX Antenna gain:	max. +4dBd, RHCP polarisized

ROGER™ GNSS products:

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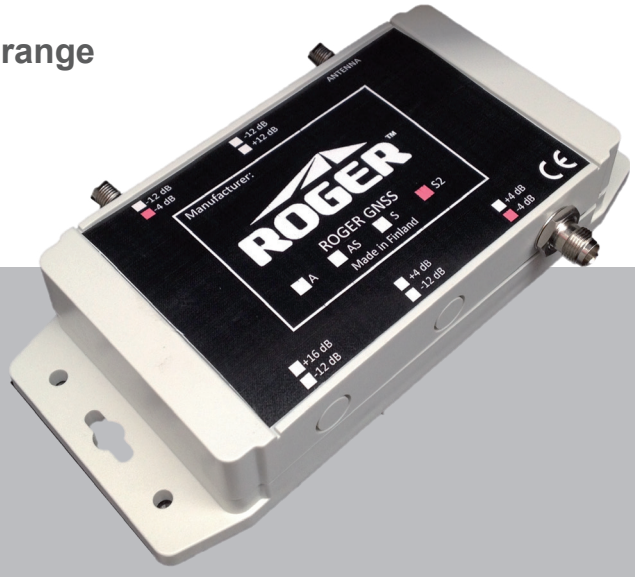
Roger GNSS Splitter 1-to-2
GNSS-S2-IP67

Key Features

With the ROGER™ GNSS Signal Splitter, is a signal splitter that is used to distribute GNSS signals to several Repeaters. Splitter works with GPS L1, GPS L2 and GLONASS frequency bands. It has one chaining output and two repeater outputs. DC power is passed from the chaining output to the input connector for line amplifier and to GNSS receiving antenna.

ROGER™ GNSS Splitter is a one to two signal splitter with an output of -4 dB (2 ports) that can transmit signal to up to two separate GNSS repeater units.

The splitter is easy to use and permits a wide range of system configurations.



Technical information:

Size:	200*119*39mm
Weight:	241 g
Casing:	IP67
Operating temperature:	-40 - +75°C
Connectors:	1 x TNC female input, 2 x -4dB TNC female output:
Frequency range:	1200-1700MHz
Impedance:	50Ω
Power:	The splitter is powered through the output / DC input connector by the ROGER GNSS Repeater

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Roger GNSS Splitter
GNSS-S-IP67

Key Features

With the ROGER™ GNSS Signal Splitter, is a signal splitter that is used to distribute GNSS signals to several Repeaters. Splitter works with GPS L1, GPS L2 and GLONASS frequency bands. It has one chaining output and four repeater outputs. DC power is passed from the chaining output to the input connector for line amplifier and GNSS receiving antenna.

ROGER™ GNSS Splitter is a one to five signal splitter with an output of -4 dB (1 port) and -12 dB (4 ports) that can transmit signal to up to five separate GNSS repeater units.

The splitter is easy to use and permits a wide range of system configurations.

Technical information:

Size:	200*119*39mm
Weight:	355 g
Casing:	IP67
Operating temperature:	-40 - +75°C
Connectors:	1 x TNC female input, 5 x TNC female output: 1 x -4dB with DC pass 4 x -12dB
Frequency range:	1200-1700MHz
Impedance:	50Ω
Power:	The splitter is powered through the output / DC input connector by the ROGER GNSS Repeater