

## Active filtered multiband 4-way GNSS splitter

v1.0

**proGPS1130 is amplified and filtered 4-way multi-constellation and multiband (L1/L2/L5,E1/E5a/E5b/E6,G1/G2/G3) GNSS signal splitter specially designed to operate with interference proof proTAC8003 multiband GNSS antenna.**

Instead of traditional wideband approach proGPS1130 has two steep passbands for L1 and L2 and their corresponding GNSS signals to mitigate co-site interference issues caused by tightly installed antenna environments and nearby high power transmitters.

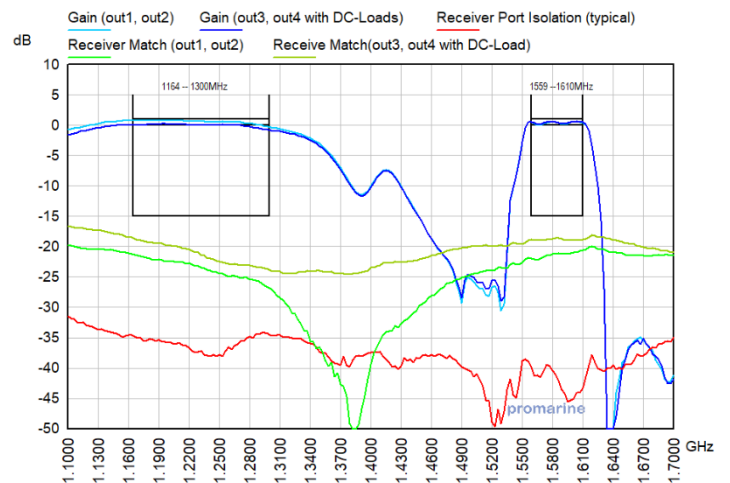
This enables interference free reception of wanted signals and suppression of unwanted interfering signals both unintentional and intentional.

Internally proGSP1130 has two separate signal paths with dedicated low noise amplifiers and steep bandpass filtering. Amplifiers compensate splitting and filtering loss and the net gain is around zero decibels. This increases robustness and survivability in hostile environments.

Two receiver ports include load resistors to simulate actual antenna current in order to prevent antenna fault indication of receiver in some cases.

High receiver isolation prevents faulty receiver to leak interference to other receivers.

Galvanic isolation prevents ground loops and formation of corrosion.



<b>Splitter type</b>	4-way active filtered multiband GNSS splitter	<b>Antenna port (in)</b>	Lightning protected Shield grounded to chassis
<b>Model</b>	GSP1130	<b>Antenna power</b>	+5VDC 100mA
<b>Frequency</b>	1164-1300MHz 1559-1610MHz	<b>Net gain</b>	0 dB (+/- 1dB)
<b>DC input power</b>	9-36 VDC (max 3W) isolated	<b>Output Isolation</b>	RF isolation 35dB (avg) galvanic DC-floating
<b>Case size</b>	119x110x30mm, weight: 0.32kg,	<b>RX port match</b>	better than -15dB
<b>Material</b>	aluminum	<b>RX ports 1-2 (out)</b>	no load
<b>Environment</b>	non condensing, -40° - +80° shock proof	<b>RX ports 3-4 (out)</b>	load resistor to simulate antenna
		<b>Mounting</b>	M4 holes on lid

All rights reserved. Changes possible.