

Programmable GNSS Amplified Splitter

GA30-PV4



Descriptions:

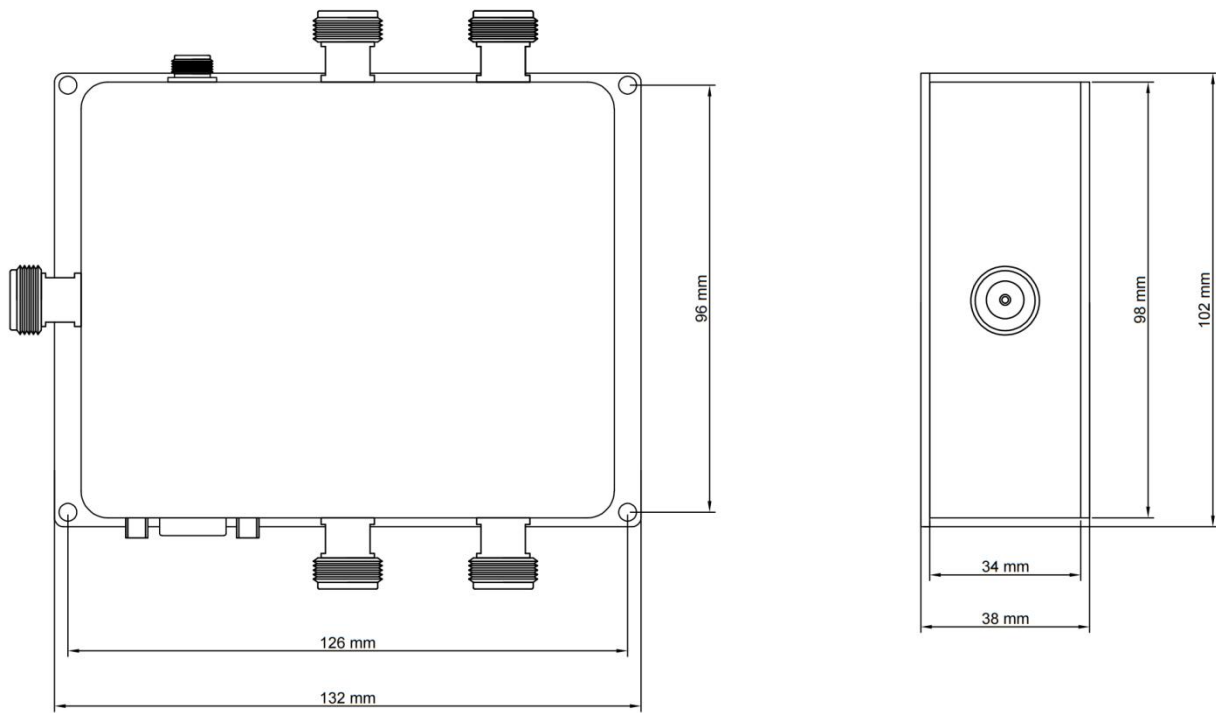
- Military grade working temperature $-55^{\circ} \sim 85^{\circ}$ (core device operating temperature: $-55^{\circ} \sim 125^{\circ}$)
- Adjustable gain range: $0 \sim 30\text{dB}$; Stepping: 1dB
- Operating frequency range: $1164\text{MHz} \sim 1616\text{MHz}$
- Output voltage at IN: 5V;
- Connector mode: TNC-K, N, SMA
- Program control mode: 485 protocol interface;
- Power supply mode:
 - 220VAC to 12VDC power adapter power supply; (Standard)
 - Dual $18 \sim 76\text{V}$ DC inputs; (Optional)
- Input port voltage: 5V DC

Amplified splitter is a device that integrates an active GNSS amplifier with one input and four port outputs. The signal received by the active GPS receiving antenna is evenly distributed to 4 outputs and supplied to other receiving devices. In such an application, its IN terminal can be configured to pass 5V DC to power the active GPS antenna connected to the port, and the other output ports will have a 200 Ohm DC load to simulate the DC loss of any receiver antenna connected to these ports, and the device can control the required gain and attenuation value through the 485 protocol. The maximum adjustable gain is 30dB.

Electrical parameters

Parameters	Conditions	Min	Std.	Max	Unit
Working temperature		-55°		85°	$^{\circ}\text{C}$
Frequency Range	Ant to any ports	1164		1616	MHz
Input & output impedance	输入, 全部输出端口		50		Ω
Range of Gain	1dB step		30		dB
Input VSWR			2.0:1		-
Output VSWT			2.0:1		-
Noise Figure			2	3	dB
Blance of Gain				2	dB
Isolation			20		dB
DC input	220VAC to 12VDC adaptor		12		VDC
Current			20		mA
Max input RF	Without damage			0	dBm
Interface		N Female、TNC Female、SMA Female			
Number of input		1			
Number of outputs		4			

Mechanical structure



Surface treatment process

Standard: nickel plating;

Options: copper plating, baking paint (conformal paint, gray)

Ordering Information

GA30-PV4-SF

SF: SMA Female

SFL: SMA Female with auto locked

NF: N Female

TF: TNC Female