GENERAL DYNAMICS
Mission Systems

GPS Source Catalog

1st Quarter 2019

Prices effective February 2019

GENERAL DYNAMICS
Mission Systems

GPSS Operations Enabled

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AS9100 and ISO 9001 Compliant Company

GPSS Amplifiers

Amplifiers

When you need to increase the power of your GNSS signal, GPS Source has standard 30dB and 40dB amplifiers in a wide range of housing formats to fit your specific application. Custom built amplifiers with specific or variable amplification are also available.

Smart Amplifiers

GPS Source is the only manufacturer of smart amplifiers that provide a consistent/controlled power output that can be selected on a digital display. Smart amplifiers also monitor for oscillation and mitigate it making them the safest GPS amplifiers available.

How to Use this Catalog:

This price catalog is organized by product line. Prices are listed in US Dollars. The price for each option is listed along side the option description. The code for each option is listed in parenthesis directly after the option description. If there is a blank line under an option "---", this option is not available for that part number. The code "STD" means Standard Option Included and there is no need to add the price or code to the part number.

"Notes" reference citations at the bottom of the page and detail specific technical information about the part. References to the notes can be found in superscript next to the part number or applicable price of option.

Initial OEM Part Number → **A11M** [a] ← **See Notes section on bottom of each page**

In-line Amplifier 30dB
Tiny Housing

30dB In-Line Amplifier

Code for "Options" added to part

	List ($)
Unit Price	Call
Waterproof (-W)	Call
Hermetically Sealed (-HS)	Call [c]

Amplier Product Decoder:

Example Part Number: **A11 - AXX - P110 / 5 - SF**

Product Name

Gain Option
AXX = Custom Gain (XXdB)
V = Variable 0 -30dB
Blank = Default Gain

Source Voltage
P110, P230, P240, PDC, PM, PMS

Output Voltage
3.3, 5, 7.5, 9, 12, BCD

Connector Types
N, SMA, TNC, male or female

Smart Amplier Product Decoder:

Example Part Number: **METRO - XX - P110 / 6.8 - NF**

Product Name

Filter Option
F12 = L1/L2 Signal
Blank = L1 Signal

Source Voltage
P110, P230, P240, PDC

Output Voltage
6.8 Only

Connector Types
N, TNC, male or female

Amplifiers

	A11	A11M [a]	MA11M [a s]	A114M [a s]
	In-Line Amplifier 30dB Standard Housing  *30dB In-Line Amplifier*	In-Line Amplifier 30dB Mini Housing  *30dB In-Line Amplifier*	Military Qualified In-line Amplifier 30dB Mini Housing  *30dB In-Line Amplifier*	In-Line Amplifier 40dB Mini Housing  *40dB In-Line Amplifier*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Custom Gain (-AXX)	Call	Call	Call	Call
EMI Shielding (-E)	Call[c]	Call [c]	STD	Call [c]
Filtered L1 (-F1)	-	-	-	Call [e]
Filtered L1/L2 (-F12)	-	-	-	-
Hermetically Sealed (-HS)	Call[c]	Call [c]	STD	Call [c]
Power AC or DC (-PXXX/XX)	Call[h]	-	-	-
Power MIL DC (-PM/XX)	Call[u]	-	-	-
MIL STD 1275 Surge Suppression (-PMS-1275/XX)	Call[u]	-	-	-
MIL STD 704 Surge Suppression (-PMS-704/XX)	-	-	-	-
Variable Gain (-V)	Call [g h]	Call [g h]	-	Call [f h]
Waterproof (-W)	Call	Call	STD	Call
Controlled Signal Source (-CS)	-	-	-	-
Mount (-M)	Call	-	-	-

NOTES	
a. All standard connector types available	m.Standard configuration option is Always On
c. Includes waterproof option; applies to device only, not power	n. METRO DC Power out is always XXX/6.8
d. Requires power option (must add price for power option)	p. Requires 15-36 VDC for DC input
e. Gain is 38.5dB	q. Standard range is 5-12 VDC
f. Gain is 0dB to 36dB	s. Standard configuration is DC Pass on Input, DC Pass on Output, EXCEPT MA11M (DC Block on Input, DC Pass on Output standard)
g. Gain is 0dB to 30dB	t. Attenuator 32dB; direct connect
h. Waterproof, EMI shielding and hermetically sealed are not available with PXXX/XX	u. PM mating connector included

Amplifiers

	METRO [mn]	METRO-G [mn]	METROe [mn]
	GPS Smart Amplifier w/ Push Buttons & Display  *Smart Amplifier*	GLONASS Smart Amplifier w/ Push Buttons & Display  *Smart Amplifier*	GPS Smart Amplifier w/ Push Buttons & Display, CE Certified  *Smart Amplifier*
	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call
Custom Gain (-AXX)	-	-	-
EMI Shielding (-E)	-	-	-
Filtered L1 (-F1)	STD	STD	STD
Filtered L1/L2 (-F12)	Call	Call	Call
Hermetically Sealed (-HS)	-	-	-
Power AC or DC (-PXXX/XX)	STD [np]	STD [np]	STD [np]
Power MIL DC (-PM/XX)	-	-	-
MIL STD 1275 Surge Suppression (-PMS-1275/XX)	-	-	-
MIL STD 704 Surge Suppression (-PMS-704/XX)	-	-	-
Variable Gain (-V)	-	-	-
Waterproof (-W)	-	-	-
Controlled Signal Source (-CS)	Call [t]	Call [t]	Call [t]
Mount (-M)	Call	Call	Call

NOTES	
a. All standard connector types available	m.Standard configuration option is Always On
c. Includes waterproof option; applies to device only, not power	n. METRO DC Power out is always XXX/6.8
d. Requires power option (must add price for power option)	p. Requires 15-36 VDC for DC input
e. Gain is 38.5dB	q. Standard range is 5-12 VDC
f. Gain is 0dB to 36dB	s. Standard configuration is DC Pass on Input, DC Pass on Output, EXCEPT MA11M (DC Block on Input, DC Pass on Output standard)
g. Gain is 0dB to 30dB	t. Attenuator 32dB; direct connect
h. Waterproof, EMI shielding and hermetically sealed are not available with PXXX/XX	u. PM mating connector included

GPSS Antennas

Antennas

A GPS or GNSS device relies on the radio signals sent by the GNSS (Global Navigation Satellite System) network situated in Earth's orbit. Unfortunately, the signals from this satellite system are very weak, and the accuracy of GPS depends on the signal strength. A GPS antenna helps focus and move the GPS signal to a GPS unit, whether it is a standalone or embedded unit. Antennas are used in situations where the GPS unit itself is somehow removed from a line of sight to the sky, as in a building or an armored vehicle.

GPS Source antennas are specifically designed and manufactured for the GNSS frequencies (GPS, GLONASS, Galileo, BeiDou, and Compass). In addition to standard L1 active (receive) and passive (broadcast) antenna's, GPS Source also supplies L1/L2 antennas for most applications. We also manufacture our own RA1 and RA2 antennas for military applications.

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"Notes" reference citations at the bottom of the page and detail specific technical information about the part. References to the notes can be found in superscript next to the part number or applicable price of option.

Initial OEM Part Number → **L1G1A-STD** [b g] ← **See Notes section on bottom of each page**

GNSS L1/G1 Active Standard Configuration for Wireless Application

Active Antenna

Code for "Options" added to part

	List ($)
Unit Price	Call
Weatherproof (-W)	STD
Hermetically Sealed (-HS)	-

Antenna Product Decoder:

Example Part Number: **L1A - PM - NF**

Product Name

Mount Options
-PM, -PL, -TRMO, -TRMI

Standard Connector Types
N, TNC, SMA, male or female

Antennas

	L1G1A-STD [bg]	L1AW [bdg]	L1A [ah]	L1P [h]
	GNSS L1/G1 Active Standard Configuration for Wireless Application  *Active Antenna*	L1A Active for Wireless Applications  *Active Antenna*	GPS L1 Active  *Active Antenna*	GPS L1 Passive  *Passive Antenna*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Weatherproof	STD	STD	STD	STD
Hermetically Sealed	-	-	-	-
Magnet Mount (-MM)	-	-	-	-
Pedestal Mount (-PL)	-	-	-	Call
Pole Mount (-PM)	-	Call	Call	-
Tripod (-TRMO)	-	Call	Call	-
Pole Cap Mount (-PCM)	STD	Call	-	-
Snow/Ice Mitigating Radome (-SIM)	STD	STD	-	-
Lightning Protection (-LP)	STD	Call	-	-
Indoor Tripod Mount (-TRMI)	-	-	-	Call

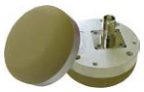
NOTES
a. Max 36dB
b. Max 33dB
c. SMA connector only
d. N, TNC and SMA available
e. Standard color is DS-Desert Sand (33303). Optional colors are available on -S Special Configuration: GN-Olive Drab Green (34094); BK-Black Lusterless (37038); WH-White Gloss (17925). Minimum order required.
g. Standard color is white
h. Standard color is black

Antennas

	L1L2-2GA [bg]	L1L2-2GP [h]	L1L2-S2GA [bcg]	L1L2-S2GP [ch]
	GPS L1/L2 Active  *Active Antenna*	GPS L1/L2 Passive  *Passive Antenna*	GPS L1/L2 Active w/ Side Mount  *Active Antenna*	GPS L1/L2 Passive w/ Side Mount  *Passive Antenna*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Weatherproof	STD	STD	STD	STD
Hermetically Sealed	STD	STD	STD	STD
Magnet Mount (-MM)	-	-	Call	Call
Pedestal Mount (-PL)	-	Call	-	-
Pole Mount (-PM)	Call	-	-	-
Tripod (-TRMO)	-	-	-	-
Pole Cap Mount (-PCM)	-	-	-	-
Snow/Ice Mitigating Radome (-SIM)	-	-	-	-
Lightning Protection (-LP)	-	-	-	-
Indoor Tripod Mount (-TRMI)	-	Call	-	-

NOTES
a. Max 36dB
b. Max 33dB
c. SMA connector only
d. N, TNC and SMA available
e. Standard color is DS-Desert Sand (33303). Optional colors are available on -S Special Configuration: GN-Olive Drab Green (34094); BK-Black Lusterless (37038); WH-White Gloss (17925). Minimum order required.
g. Standard color is white
h. Standard color is black

Antennas

	L1L2-2GAD [bdg]	L1L2-S2GAD [bcg]	L1L2-RA-1 [bce]	L1L2-RA-2 [bde]
	GPS L1/L2 Active for DAGR 3.3V Requirement  *Active Antenna*	GPS L1/L2 Active w/ Side Mount for DAGR 3.3V Requirement  *Active Antenna*	Rectangular PER: IS-GPS-164 GPS L1/L2  *Active Antenna*	Rectangular PER: IS-GPS-164 GPS L1/L2 Active  *Active Antenna*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Weatherproof	STD	STD	STD	STD
Hermetically Sealed	STD	STD	STD	STD
Magnet Mount (-MM)	-	Call	STD	-
Pedestal Mount (-PL)	-	-	-	-
Pole Mount (-PM)	Call	Call	-	-
Tripod (-TRMO)	Call	Call	-	-
Pole Cap Mount (-PCM)	-	-	-	-
Snow/Ice Mitigating Radome (-SIM)	-	-	-	-
Lightning Protection (-LP)	-	-	-	-
Indoor Tripod Mount (-TRMI)	-	-	-	-

NOTES
a. Max 36dB
b. Max 33dB
c. SMA connector only
d. N, TNC and SMA available
e. Standard color is DS-Desert Sand (33303). Optional colors are available on -S Special Configuration: GN-Olive Drab Green (34094); BK-Black Lusterless (37038); WH-White Gloss (17925). Minimum order required.
g. Standard color is white
h. Standard color is black

Antennas

	GNSS-3A [e]	GNSS-3P [h]	GNSS-3SA [e]	GNSS-3SP [h]
	GPS L1/L2 GLONASS Active  *Active Antenna*	GPS L1/L2 GLONASS Passive  *Passive Antenna*	GPS L1/L2 GLONASS Active - Side Mount Active  *Active Antenna*	GPS L1/L2 GLONASS Passive - Side Mount  *Passive Antenna*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Weatherproof	STD	STD	STD	STD
Hermetically Sealed	STD	STD	STD	STD
Magnet Mount (-MM)	-	-	Call	Call
Pedestal Mount (-PL)	-	Call	-	Call
Pole Mount (-PM)	Call	-	Call	-
Tripod (-TRMO)	Call	-	Call	-
Pole Cap Mount (-PCM)	-	-	-	-
Snow/Ice Mitigating Radome (-SIM)	-	-	-	-
Lightning Protection (-LP)	-	-	-	-
Indoor Tripod Mount (-TRMI)	-	Call	-	-

NOTES
a. Max 36dB
b. Max 33dB
c. SMA connector only
d. N, TNC and SMA available
e. Standard color is DS-Desert Sand (33303). Optional colors are available on -S Special Configuration: GN-Olive Drab Green (34094); BK-Black Lusterless (37038); WH-White Gloss (17925). Minimum order required.
g. Standard color is white
h. Standard color is black

Antennas

	L1G1A [b d h]	L1G1P [b d h]
	GNSS L1/G1 Active  *Active Antenna*	GNSS L1/G1 Passive  *Passive Antenna*
	List ($)	List ($)
Unit Price	Call	Call
Weatherproof	STD	STD
Hermetically Sealed	-	-
Magnet Mount (-MM)	-	-
Pedestal Mount (-PL)	-	Call
Pole Mount (-PM)	-	-
Tripod (-TRMO)	Call	-
Pole Cap Mount (-PCM)	Call	-
Snow/Ice Mitigating Radome (-SIM)	Call	-
Lightning Protection (-LP)	Call	-
Indoor Tripod Mount (-TRMI)	-	Call

NOTES
a. Max 36dB
b. Max 33dB
c. SMA connector only
d. N, TNC and SMA available
e. Standard color is DS-Desert Sand (33303). Optional colors are available on -S Special Configuration: GN-Olive Drab Green (34094); BK-Black Lusterless (37038); WH-White Gloss (17925). Minimum order required.
g. Standard color is white
h. Standard color is black

GPSS Attenuators, Combiners, Filters

Attenuator

An attenuator is a device that reduces the amplitude or power of a signal without appreciably distorting its waveform. It is a passive device that could be considered the opposite of an amplifier. While an amplifier provides gain, an attenuator provides loss. Fixed attenuators dissipate power and improve impedance matching. In measuring signals, attenuators are used to lower the amplitude of the signal by a specified amount. A GPS attenuator on a coaxial cable can be used to reduce the GPS signal level before it is used to test equipment. All GPS Source attenuators are capable of passing DC bias voltage through the device or blocking the DC path, without affecting the GPS signal.

Combiner

A combiner is a device that will take the input signal from two GPS antennas and combine the signal to one receiving GPS unit. GPS Source combiners will pass DC bias voltage through the device to power both antennas.

Filter

A filter is a device designed to filter out unwanted signals. It can be designed to pass only the L1 GPS frequency. A good filter features high out of band rejection, including excellent side band rejection.

The standard configuration for non-powered attenuators/combiners/filters is to pass DC on the input(s) and the output(s). The standard configuration for powered attenuators/combiners/filters is to pass DC on the input(s) and block DC on the output(s). Special configurations are available and must be specified.

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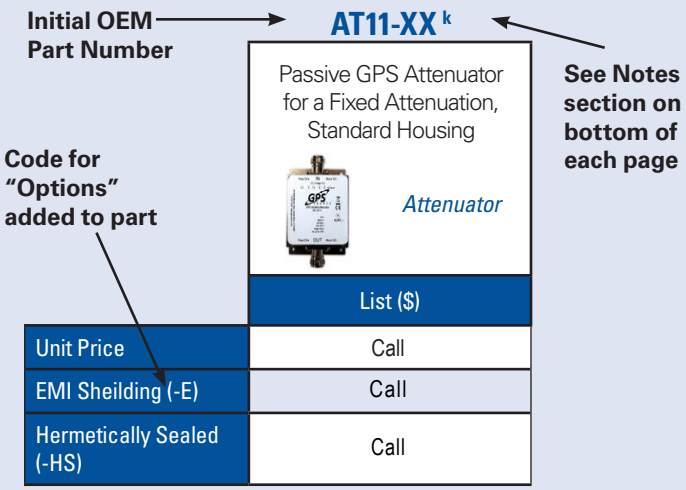

Attenuators, Combiners, Filters Decoder:

Example Part Number: **AT11V - P110 / 5 - SF**

Product Name

Source Voltage
P110, P230, P240, PDC, PM, PMS

Output Voltage
3.3, 5, 7.5, 9, 12, BDC

Standard Connector Types
N, SMA, TNC, male or female

The standard configuration for non-powered attenuators/combiners/filters is to pass DC on the input(s) and the output(s).

The standard configuration for powered attenuators/combiners/filters is to pass DC on the input(s) and block DC on the output(s).

Special configurations are available and must be specified.

Attenuators, Combiners, Filters

	AT11-XX [k]	AT11V [m]	AT11M-XX [a k]	C21 [a]
	Passive GPS Attenuator for a Fixed Attenuation, Standard Housing  *Attenuator*	GPS Attenuator w/ Variable Attenuation from 0 to -40dB, Standard Housing  *Attenuator*	Passive GPS Attenuator for a Fixed Attenuation, Mini Housing  *Attenuator*	GPS Signal Combiner, 2 inputs, 1 Output, Standard Housing  *Combiner*
	List ($)	List ($)	List ($)	List ($)
Price	Call	Call	Call	Call
EMI Shielding (-E)	Call [c]	-	Call [c]	Call [c]
Hermetically Sealed (-HS)	Call [c]	-	Call [c]	Call [c]
Power AC or DC (-PXXX/XX)	Call [n]	Call [n]	-	Call [n]
Power MIL DC (-PM/XX)	Call	Call	-	Call
MIL STD 1275 Surge Suppression (-PMS- 1275/XX)	Call	Call	-	Call
MIL STD 704 Surge Suppression (-PMS-704/XX)	Call	Call	-	Call
Waterproof (-W)	Call	-	Call	Call

NOTES	
a. All standard connector types available	k. Standard range is 0dB to 25dB
b. Limited to SMA connector	m. Standard range is -2dB to -40dB
c. Waterproof, EMI shielding, and hermetically sealed applies to device only	n. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

Attenuators, Combiners, Filters

	C21S [b]	L1FM-HR [a]	L12F-HR
	GPS Signal Combiner, 2 Inputs, 1 Output, Slimline Housing  *Combiner*	Bandpass Filter for GPS L1 Signal, Mini Housing, High Rejection  *Passive Filter*	Bandpass Filter for GPS L1 and L2 Signal, Standard Housing  *Passive Filter*
	List ($)	List ($)	List ($)
Price	Call	Call	Call
EMI Shielding (-E)	Call [c]	Call [c]	Call [c]
High Rejection (-HR)	-	-	STD
Hermetically Sealed (-HS)	Call [c]	Call [c]	Call
Power AC or DC (-PXXX/XX)	-	-	Call
Power MIL DC (-PM/XX)	-	-	Call
MIL STD 1275 Surge Suppression (-PMS- 1275/XX)	-	-	Call
MIL STD 704 Surge Suppression (-PMS-704/XX)	-	-	Call
Waterproof (-W)	Call	Call	Call

NOTES	
a. All standard connector types available	k. Standard range is 0dB to 25dB
b. Limited to SMA connector	m. Standard range is -2dB to -40dB
c. Waterproof, EMI shielding, and hermetically sealed applies to device only	n. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

GPSS Hoods

Hoods

Hoods from GPS Source are similar to mini anechoic chambers. They fully contain the GNSS signal and allow safe testing of GPS devices to occur under the hood. When you need a test chamber (anechoic) that fully contains the GNSS signal, GPS Source repeater hoods are an optimal, low-cost solution.

NO FCC LICENSING REQUIRED. The device is designed to contain GPS signal within the hood enclosure.

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Initial OEM Part Number → **GPSRHL15** [b] ← **See Notes section on bottom of each page**

Code for "Options" added to part →

5 inch Diameter Repeater Hood  *Repeater Hood*	List ($)
Price	Call
L1/L2 (-L2)	Call
L1/L2/GLONASS (-L2G)	Call

Hood Product Decoder:

Example Part Number: **GPSRHL15 - XXX / V - SF**

Product Name — GPSRHL15

Frequency — XXX
- L1 Standard -blank
- L1=L1/L2
- L2=L1/L2
- L2G=GPS L1/L2 & GLONASS L1/L2

Variable Attenuation — V
- V= 0-30dB Variable Attenuation

Connector Types — SF
- N, SMA, TNC, male or female
- SMA-female only without -V option

Hoods

	GPSRHL15 [b]	GPSRHL18 [b]	GPSRHL124 [b]
	5 inch Diameter Repeater Hood  *Repeater Hood*	8.75 inch Diameter Repeater Hood  *Repeater Hood*	24 inch Diameter Repeater Hood  *Repeater Hood*
	List ($)	List ($)	List ($)
Price	Call	Call	Call
L1/L2 (-L2)	Call	Call	-
L1/L2/GLONASS (-L2G)	Call	Call	STD
Variable Attenuation (-V)	Call	Call	-

NOTES
b. Power option on hoods requires purchase of bias-T and cable separately to power.

GPSS Rack Mount Splitters

Rack Mounts

GPS Source RMS rack mount splitters are designed to split and amplify GPS and GNSS frequency signals from one or two active antenna to 8 up to 32 outputs. The most common use for the RMS is input from an active GPS roof antenna or GPS simulator split into receiving GPS units or timing boards.

Rack mount splitters are commonly used by cellular, timing, and test labs utilizing GPS.

If you need features that are not in this catalog, please contact GPS Source for availability and pricing.

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Initial OEM Part Number → **RMS18** [c] ← **See Notes section on bottom of each page**

GPS Rack Mount Splitter, 1 Input, 8 Outputs,19"x 1.75" Chassis, 12dB Amplification

Rack Mount Splitters

Code for "Options" added to part

	List ($)
Price	Call
Custom Gain (-AXX, -AS)	Call [c]
Power AC or DC (-PWRAC/XX)	STD

Rack Mount Splitter Product Decoder:

Example Part Number: **RMS18 - AXX - PWAR / 5 - SF**

Product Name

Gain Option
AXX = Custom Gain (XXdB)
V = Variable 0 -30dB
Blank = Default Gain

Source Voltage
P110, P230, P240, PDC, PM, PMS)

Output Voltage
3.3, 5, 7.5, 9, 12, BDC

Connector Types
N, SMA, TNC, male or female

Rack Mount Splitters

	RMS18 [c]	RMS116 [c]	RMS132 [c]	RMS216 [c]
	GPS Rack Mount Splitter, 1 Input, 8 Outputs,19"x 1.75" Chassis, 12dB Amplification  *Rack Mount Splitters*	GPS Rack Mount Splitter, 1 Input, 16 Outputs, 19"x 3.75" Chassis, 8dB Amplification  *Rack Mount Splitters*	GPS Rack Mount Splitter, 1 Input, 32 Outputs, 4dB Amplification, 19 x 5.25" Chassis or 19"x 7" (high) chassis  *Rack Mount Splitters*	GPS Rack Mount Splitter, 2 Input, 16 Outputs, 19"x 3.5" Chassis, 8dB Amplification  *Rack Mount Splitters*
	List ($)	List ($)	List ($)	List ($)
Price	Call	Call	Call	Call
Custom Gain (-AXX)	Call [c]	Call [c]	Call [c]	Call [c j]
Power AC or DC (-PWRAC/XX)	STD	STD	STD	STD
Ext. Rackmount Ears 21" (-RM21)	Call	Call	Call	Call
Power DC (-PWRDC)	-	-	-	Call
Power -48VDC (-PWR48)	-	-	-	Call
Power Dual AC (-2PWRAC)	-	-	-	Call
Power Dual DC (-2PWRDC)	-	-	-	Call
Power Dual -48VDC (-2PWR48)	-	-	-	Call

NOTES	
c. Standard gain / RMS18=12dB / RMS116=8dB / RMS132=4dB	j. All ports will be same gain

	RMS232 [c]
	GPS Rack Mount Splitter, 2 Inputs, 32 Outputs,19"x 15.25" Chassis, 4dB Amplification  *Rack Mount Splitters*
	List ($)
Price	Call
Custom Gain (-AXX)	Call [c j]
Power AC or DC (-PWRAC/XX)	STD
Ext. Rackmount Ears 21" (-RM21)	Call
Power DC (-PWRDC)	Call
Power -48VDC (-PWR48)	Call
Power Dual AC (-2PWRAC)	Call
Power Dual DC (-2PWRDC)	Call
Power Dual -48VDC (-2PWR48)	Call

NOTES	
c. Standard gain / RMS18=12dB / RMS116=8dB / RMS132=4dB	j. All ports will be same gain

GPSS Splitters

Splitters

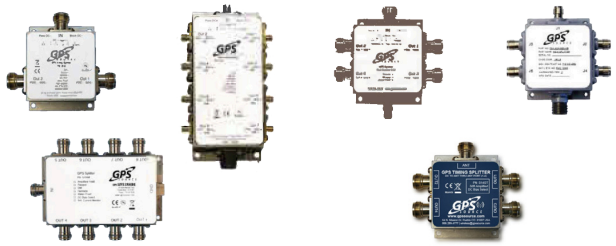
When you need the GNSS signal routed to multiple destinations, GPS Source has the most extensive line of GPS splitters in a wide array of output and housing form factors. We provide everything from passive splitters to units that can have custom gain on each output.

Mil Spec Splitters

GPS Source can also provide mil-qualifying services for any of our products.

Smart Splitters

Capable of detecting failed power sources and switch to alternative power sources.



How to Use this Catalog:

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"Notes" reference citations at the bottom of the page and detail specific technical information about the part. References to the notes can be found in superscript next to the part number or applicable price of option.

Initial OEM Part Number → **S12S** [a] ← **See Notes section on bottom of each page**

GPS Splitter, 1 Input, 2 Outputs, Slimline Housing

Splitters

Code for "Options" added to part

	List ($)
Unit Price	Call
Standard Amplification (-A)	Call [b c e]
Custom Amplified (-AXX,-AS)	Call [b c e]

Splitters Product Decoder:

Example Part Number: **S12 - AXX - P110/ 5 - SF**

Product Name

Gain Option
AXX = Custom Gain (XXdB)
A = default gain

Source Voltage
P110, P230, P240, PDC, PM, PMS

Output Voltage
3.3, 5, 7.5, 9, 12, BDC

Connector Types
N, SMA, TNC, male or female

The standard configuration for non-powered splitters is to pass DC on the input and port 1; block DC on remaining ports. The standard configuration for a powered splitter is to pass DC on the input and block DC on all output ports. Special configurations are available and must be specified.

Splitters

	S12	S12S [a]	S12T [a]	S14GT [j o cc]
	GPS Splitter, 1 Input, 2 Outputs, Standard Housing  *Splitters*	GPS Splitter, 1 Input, 2 Outputs, Slimline Housing  *Splitters*	GPS Splitter, 1 Input, 2 Outputs, Tiny Housing  *Splitters*	Standard GPS Splitter, 1 Input, 4 Outputs  *Splitters*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Standard Amplification (-A)	Call [b c e]	Call [b c e]	Call [b c e]	STD
Custom Amplified (-AXX,-AS)	Call [b c e]	Call [b c e]	Call [b c e]	-
Antenna Monitoring (-AM)	-	-	-	-
Beacon (-B)	Call	-	-	-
EMI Shielding (-E)	Call [f]	Call [f]	Call [f]	-
Filtered L1 (-F1)	-	-	-	-
Hermetically Sealed (-HS)	Call [f]	Call [f]	Call [f]	-
Power AC or DC (-PXXX/XX)	Call [ee]	-	-	-
Power MIL DC (-PM/XX)	Call [s]	-	-	-
Power 1275 (-PMS-1275/XX)	Call [s]	-	-	-
Power 704 (-PMS-704/XX)	Call [s]	-	-	-
Power MIL DC 38999 (-PM38999/XX)	Call	-	-	-
MIL STD 1275 Surge Suppression (38999) (-PMS38999-1275/XX)	Call	-	-	-
MIL STD 704 Surge Suppression (38999) (-PMS38999-704/XX)	Call	-	-	-
Waterproof (-W)	Call [f]	Call [f]	Call [f]	-
Pwr MIL STD 704 & 1275 (-PMS26482/XX)	-	-	-	-
Antenna Fault Indicator Panel (-FP)	-	-	-	-
50 Ohm Tethered Load (-TL)	Call [dd]	Call [dd]	Call [dd]	-

NOTES

a. Limited to SMA connector

b. Use -AXX if all ports are same gain or -AS and provide gain on each port in description field

c. Standard Amplification (-A): S12/S12S=24dB, S12T=8dB, S14/S14S=21dB, S18/S18S=18dB

d. Standard Amplification: 18dB included at no extra cost

e. Custom Gain Range: S12/S12S=0-24dB, S12T=0-8dB, S14/S14S=0-21dB, S18/S18S=0-18dB

f. Waterproof, EMI shielding, and hermetically sealed applies to device only, or required MIL DC Power option

k. Standard Amplification: 10dB included at no extra cost

m. Standard Amplification (-A): MS12=15dB, MS14=10dB, MS18=15dB, MS22=12dB, MS24=8dB

n. Custom Gain Range: MS12=0-15, MS14=0-10dB, MS18=0-20dB, MS22 = 0-12B, MS24 = 0-8dB

o. DC Bias Select is Standard

q. Custom Gain Range: S14WI=0-20dB, S18WI=0-15dBd

s. PM mating connector included

cc. Standard amplification 0dB; included at no extra cost

dd. Additional each tethered load, call for configuring correct port allocation

ee. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

Splitters

	S14	S14S [a]	S18 [d]	S18GT [j o cc]
	GPS Splitter, 1 Input, 4 Outputs, Standard Housing  *Splitters*	GPS Splitter, 1 Input, 4 Outputs, Slimline Housing  *Splitters*	GPS Splitter, 1 Input, 8 Outputs, Standard Housing  *Splitters*	Standard GPS splitter, 1 Input, 8 Outputs  *Splitters*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Standard Amplification (-A)	Call [b c e]	Call [b c e]	STD [d]	STD
Custom Amplified (-AXX,-AS)	Call [b c e]	Call [b c e]	Call [b e]	-
Antenna Monitoring (-AM)	-	-	-	-
Beacon (-B)	Call	-	Call	-
EMI Shielding (-E)	Call [f]	Call [f]	Call [f]	-
Filtered L1 (-F1)	-	-	-	-
Hermetically Sealed (-HS)	Call [f]	Call [f]	Call [f]	-
Power AC or DC (-PXXX/XX)	Call [ee]	-	Call [ee]	-
Power MIL DC (-PM/XX)	Call [s]	-	Call [s]	-
Power 1275 (-PMS-1275/XX)	Call [s]	-	Call [s]	-
Power 704 (-PMS-704/XX)	Call [s]	-	Call [s]	-
Power MIL DC 38999 (-PM38999/XX)	Call	-	Call	-
MIL STD 1275 Surge Suppression (38999) (-PMS38999-1275/XX)	Call	-	Call	-
MIL STD 704 Surge Suppression (38999) (-PMS38999-704/XX)	Call	-	Call	-
Waterproof (-W)	Call [f]	Call [f]	Call [f]	-
Pwr MIL STD 704 & 1275 (-PMS26482/XX)	-	-	-	-
Antenna Fault Indicator Panel (-FP)	-	-	-	-
50 Ohm Tethered Load (-TL)	Call [dd]	Call [dd]	Call [dd]	-

NOTES

a. Limited to SMA connector

b. Use -AXX if all ports are same gain or -AS and provide gain on each port in description field

c. Standard Amplification (-A): S12/S12S=24dB, S12T=8dB, S14/S14S=21dB, S18/S18S=18dB

d. Standard Amplification: 18dB included at no extra cost

e. Custom Gain Range: S12/S12S=0-24dB, S12T=0-8dB, S14/S14S=0-21dB, S18/S18S=0-18dB

f. Waterproof, EMI shielding, and hermetically sealed applies to device only, or required MIL DC Power option

k. Standard Amplification: 10dB included at no extra cost

m. Standard Amplification (-A): MS12=15dB, MS14=10dB, MS18=15dB, MS22=12dB, MS24 = 8dB

n. Custom Gain Range: MS12=0-15, MS14=0-10dB, MS18=0-20dB, MS22 = 0-12B, MS24 = 0-8dB

o. DC Bias Select is Standard

q. Custom Gain Range: S14WI=0-20dB, S18WI=0-15dBd

s. PM mating connector included

cc. Standard amplification 0dB; included at no extra cost

dd. Additional each tethered load, call for configuring correct port allocation

ee. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

Splitters

	S18S [a d]	S14WI [j k o q]	S18WI [j k o q]	MS12 [m n]
	GPS Splitter, 1 Input, 8 Outputs, Slimline Housing  *Splitters*	GPS Smart Ruggedized Splitter, 1 Input, 4 Outputs, Amplified 10dB, Waterproof, DC Bias Select, Surge Protection  *Splitters*	GPS Smart Ruggedized Splitter, 1 Input, 8 Outputs, Amplified 10dB, Waterproof, DC Bias Select, Surge Protection  *Splitters*	GPS Splitter Designed to Military Specifications, 1 Input, 2 Outputs, Standard Housing, EMI Shielding, Hermetically Sealed, Waterproof  *Splitters*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Standard Amplification (-A)	STD [d]	STD [k]	STD [k]	Call [b m n]
Custom Amplified (-AXX,-AS)	Call [b e]	Call [b k q]	Call [b k q]	Call [b m n]
Antenna Monitoring (-AM)	-	Call	Call	-
Beacon (-B)	-	-	-	-
EMI Shielding (-E)	Call [f]	Call	Call	STD
Filtered L1 (-F1)	-	Call	Call	-
Hermetically Sealed (-HS)	Call [f]	Call [f]	Call [f]	STD
Power AC or DC (-PXXX/XX)	-	-	-	-
Power MIL DC (-PM/XX)	-	-	-	-
Power 1275 (-PMS-1275/XX)	-	-	-	Call [s]
Power 704 (-PMS-704/XX)	-	-	-	Call [s]
Power MIL DC 38999 (-PM38999/XX)	-	-	-	-
MIL STD 1275 Surge Suppression (38999) (-PMS38999-1275/XX)	-	-	-	Call
MIL STD 704 Surge Suppression (38999) (-PMS38999-704/XX)	-	-	-	Call
Waterproof (-W)	Call [f]	STD	STD	STD
Pwr MIL STD 704 & 1275 (-PMS26482/XX)	-	-	-	-
Antenna Fault Indicator Panel (-FP)	-	-	-	-
50 Ohm Tethered Load (-TL)	Call [dd]	Call [dd]	Call [dd]	Call [dd]

NOTES

a. Limited to SMA connector

b. Use -AXX if all ports are same gain or -AS and provide gain on each port in description field

c. Standard Amplification (-A): S12/S12S=24dB, S12T=8dB, S14/S14S=21dB, S18/S18S=18dB

d. Standard Amplification: 18dB included at no extra cost

e. Custom Gain Range: S12/S12S=0-24dB, S12T=0-8dB, S14/S14S=0-21dB, S18/S18S=0-18dB

f. Waterproof, EMI shielding, and hermetically sealed applies to device only, or required MIL DC Power option

k. Standard Amplification: 10dB included at no extra cost

m. Standard Amplification (-A): MS12=15dB, MS14=10dB, MS18=15dB, MS22=12dB, MS24=8dB

n. Custom Gain Range: MS12=0-15, MS14=0-10dB, MS18=0-20dB, MS22 = 0-12B, MS24 = 0-8dB

o. DC Bias Select is Standard

q. Custom Gain Range: S14WI=0-20dB, S18WI=0-15dBd

s. PM mating connector included

cc. Standard amplification 0dB; included at no extra cost

dd. Additional each tethered load, call for configuring correct port allocation

ee. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

Splitters

	MS14 [mn]	MS18 [nr]	MS22 [mn]	MS24 [mn]
	GPS Splitter Designed to Military Specifications, 1 Input, 4 Outputs, Standard Housing, EMI Shielding, Hermetically Sealed, Waterproof  *Splitters*	GPS Splitter Designed to Military Specifications, 1 Input, 8 Outputs, Standard Housing, EMI Shielding, Hermetically Sealed, Waterproof  *Splitters*	GPS Splitter Designed to Military Specs, 2 Input, 2 Output, Standard Housing, Antenna Health Sensor, Embedded Antenna Switch. Dual input ports allow splitter to connect 2 receive antennas.  *Splitters*	GPS Splitter Designed to Military Specs, 2 Input, 4 Output, Standard Housing, Antenna Health Sensor, Embedded Antenna Switch. Dual input ports allow splitter to connect 2 receive antennas.  *Splitters*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call
Standard Amplification (-A)	Call [bmn]	Call [bnr]	Call [bmn]	Call [bmn]
Custom Amplified (-AXX,-AS)	Call [bmn]	Call [bmn]	Call [bmn]	Call [bmn]
Antenna Monitoring (-AM)	-	-	-	-
Beacon (-B)	-	-	-	-
EMI Shielding (-E)	STD	STD	STD	STD
Filtered L1 (-F1)	-	-	-	-
Hermetically Sealed (-HS)	STD	STD	STD	STD
Power AC or DC (-PXXX/XX)	-	-	-	-
Power MIL DC (-PM/XX)	-	-	-	-
Power 1275 (-PMS-1275/XX)	Call [s]	Call [s]	-	-
Power 704 (-PMS-704/XX)	Call [s]	Call [s]	-	-
Power MIL DC 38999 (-PM38999/XX)	-	-	-	-
MIL STD 1275 Surge Suppression (38999) (-PMS38999-1275/XX)	Call	Call	-	-
MIL STD 704 Surge Suppression (38999) (-PMS38999-704/XX)	Call	Call	-	-
Waterproof (-W)	STD	STD	STD	STD
Pwr MIL STD 704 & 1275 (-PMS26482/XX)	-	-	Call	Call
Antenna Fault Indicator Panel (-FP)	-	-	Call	Call
50 Ohm Tethered Load (-TL)	Call [dd]	Call [dd]	Call [dd]	Call [dd]

NOTES

a. Limited to SMA connector

b. Use -AXX if all ports are same gain or -AS and provide gain on each port in description field

c. Standard Amplification (-A): S12/S12S=24dB, S12T=8dB, S14/S14S=21dB, S18/S18S=18dB

d. Standard Amplification: 18dB included at no extra cost

e. Custom Gain Range: S12/S12S=0-24dB, S12T=0-8dB, S14/S14S=0-21dB, S18/S18S=0-18dB

f. Waterproof, EMI shielding, and hermetically sealed applies to device only, or required MIL DC Power option

k. Standard Amplification: 10dB included at no extra cost

m. Standard Amplification (-A): MS12=15dB, MS14=10dB, MS18=15dB, MS22=12dB, MS24 = 8dB

n. Custom Gain Range: MS12=0-15, MS14=0-10dB, MS18=0-20dB, MS22 = 0-12B, MS24 = 0-8dB

o. DC Bias Select is Standard

q. Custom Gain Range: S14WI=0-20dB, S18WI=0-15dBd

s. PM mating connector included

cc. Standard amplification 0dB; included at no extra cost

dd. Additional each tethered load, call for configuring correct port allocation

ee. Waterproof, EMI shielding, and hermetically sealed not available with -PXXX/XX option

GPSS Accessories

Accessories

GPS Source is a supplier to many accessories to support your GPS, GNSS and PNT system including DC Block, Bias T, GPS RF cables, loads, lightning protection, and more.

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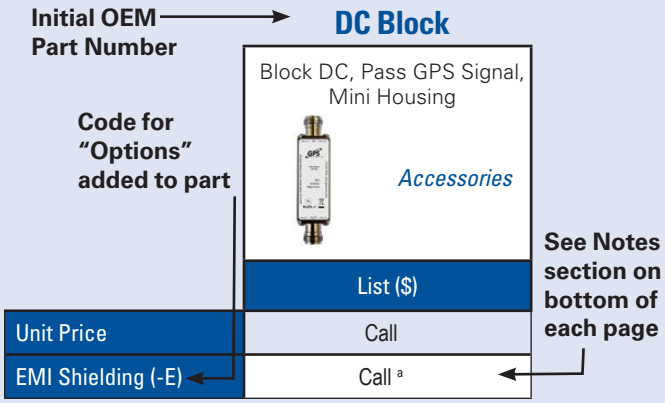
"Notes" reference citations at the bottom of the page and detail specific technical information about the part. References to the notes can be found in superscript next to the part number or applicable price of option.



Accessories

	DC Block	BT1
	Block DC, Pass GPS Signal, Mini Housing  *Accessories*	Bias T, In-Line Voltage Supplier, Standard Housing  *Accessories*
	List ($)	List ($)
Unit Price	Call	Call
EMI Shielding (-E)	Call [a]	Call [a]
Hermetically Sealed (-HS)	Call [a]	Call [a]
Power AC or DC (-PXXX/XX)	-	STD
Power MIL DC (-PM/XX)	-	Call
Waterproof (-W)	Call [a]	Call [a]
MIL STD 1275 Surge Suppression (-PMS-1275/XX)	-	Call
MIL STD 704 Surge Suppression (-PMS-704/XX)	-	Call
Power Mil Connector (-PMS-38999/XX)	-	Call
Power Mil Connector (-PMS-38999-1275/XX)	-	Call
Power Mil Connector (-PMS-38999-704/XX)	-	Call

NOTES	
a. Waterproof, EMI shielding, and hermetically sealed options apply to device only or requires external Mil DC power option	f. Standard connector types: N, TNC, SMA

Accessories

	C240-XX [df]	C240-XX [cdf]	C400-XX [df]	C400-XX [cdf]
	Coaxial LMR240 Cable, Up to 20'  *Cables*	Coaxial LMR240 Cable, Recommended up to 100'; price per foot, over 20'  *Cables*	Coaxial LMR400 Cable,Up to 20'  *Cables*	Coaxial LMR400 Cable, Recommended over 100'; price per foot, over 20'  *Cables*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call

	C316-XX [fh]	C316-XX [cfh]
	Cable Assembly RG316 Up to 20'  *Cables*	Cable Assembly RG316 price per foot, over 20'  *Cables*
	List ($)	List ($)
Unit Price	Call	Call

	COPRO [g]	COPRO-Kit [g]	PC-DC-PT06E	A-XX-XX
	Coaxial Surge, Lightning Protection with N Connector  *Accessories*	Lightning Surge Protector Kit; Includes Co-Pro, Coax Seal and 15' of LMR240 Cable (for use on all systems using an active antenna)  *Accessories*	Power Cable with MIL PC connector PT06E-10-6S for MS22 or MS24 splitter - Default length is 16'  *Power Cable*	RF Adapter  *Adapter*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call

	L50-XM	C-XX	Coax Seal Roll	PXXX [i]
	RF Load  *Accessories*	RF Connector for specified cables N, TNC, SMA male  *Accessories*	Coax Seal, Easy Seal for Any Outdoor Cable Connection  *Accessories*	AC Adapter with 6' tinned leads; P110 (US std), P230 (Euro), P240 (UK)  *Power Adapter*
	List ($)	List ($)	List ($)	List ($)
Unit Price	Call	Call	Call	Call

NOTES	
a. Waterproof option applies to device only or requires external Mil DC power option.	f. Standard connector types: N, TNC, SMA
c. Price is per foot	g. N connector only; order adapter if need other
d. All C240 cables less than 20ft Call	h. All C316 cables less than 20ft Call
e. All C400 cables less than 20ft Call	i. Power adapter to include 6ft tinned leads

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