

# RACK MOUNT 1X16 WAY GPS POWER SPLITTER



Telecommunication Technology & Engineering Accessories

Rev.V1.2

## Rack mount 1X16 Way GPS Power Splitter



### Design For Wireless Infrastructure Applications

**Gain 0dB, 10dB, 31dB (can be specified)**

### Response For

**GPS: L1,L2,L2C,L5;**

**Glonass: G1,G2;**

**Galileo: L1,E1,E2,E5(E5a,E5b),E6;**

**Beidou2: B1,B2,B3;**

**IRNSS: L1,L5;**

**OmniStar**

**High Isolations > 30dB**



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## Description:

The RGT116 GPS Splitter is a one-input, sixteen-output GPS device. This product typically finds application where an input from an active GPS roof antenna is split evenly between sixteen receiving GPS units. In this scenario, the RGT116 can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. Output ports(J2-J16) would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports.

## Specifications:

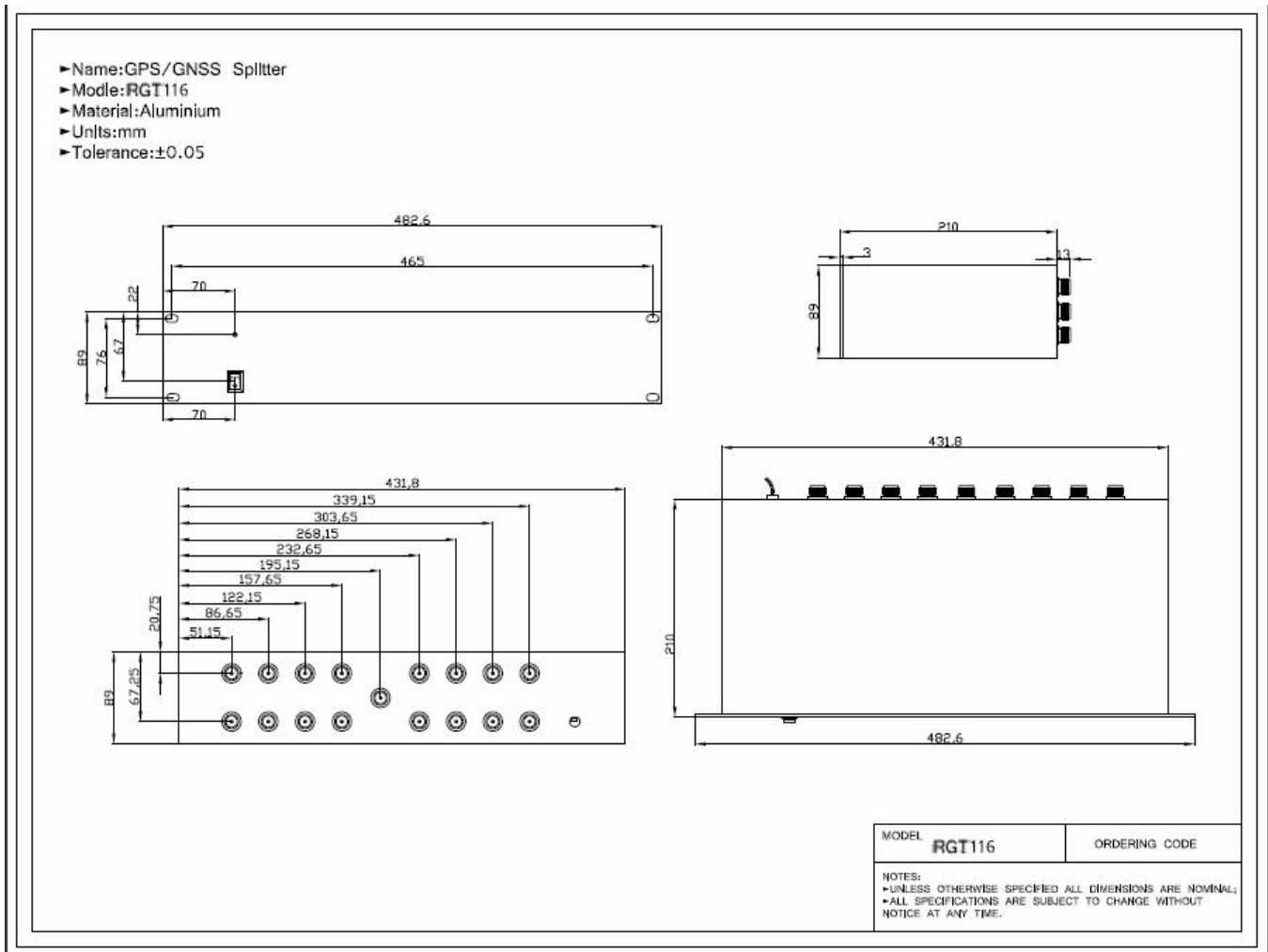
Electrical Specifications, Operating Temperature -40 to 85°C

Parameter		Conditions	Min	Typ	Max	Units
Freq. Range		Ant - Any Port	1.1		1.7	GHz
In &Out Imped.		In, all output ports		50		$\Omega$
Gain	0dB	In-Output ports, ,Unused Ports - 50 $\Omega$	-1	0	1	dB
	10dB		9	10	11	
Input SWR		All Ports- 50 $\Omega$			2.0:1	-
Output SWR		All Ports- 50 $\Omega$			2.0:1	-
Nois Figure (Amplified)		Ant-Any Port, Unused Ports-50 $\Omega$			3	dB
Gain Flatness (Amplified)		L1-L2 ,Ant-Any Port, Unused Ports-50 $\Omega$			3	dB
Amp. Balance		J1-J2 , Ant-Any Port, Unused Ports-50 $\Omega$			0.5	dB
Phase Balance		Phase(J1-J2), Ant-Any Port, Unused Ports-50 $\Omega$			1.0	deg
Group Delay Flatness					1	ns
Isolation	Amplified	Adjacent Ports: In - 50 $\Omega$	28			dB
		Opposite Ports: In - 50 $\Omega$	34			
	Gain:10dB	Adjacent Ports: In - 50 $\Omega$	28			
		Opposite Ports: In - 50 $\Omega$	34			
AC IN		Wall Mount transformer		230		VAC
DC IN		DC Block, All ports with a 200 $\Omega$ Load			14	VDC
		PASS DC, Amplified	3		16	
		PASS DC, Passive			16	
		Powered, (9V)	5	9	16	
		Powered, (48V)	43	48	58	
Device Current					80	mA
Current		Pass DC, No Powered configuration, DC input on J1			250	mA
		Powered, to be specified				mA
Max RF Input (Amplified)		Max RF input without damage			0	dBm



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## Mechanical:



## Frequency reference table:

Global/Compass Navigation Satellite Systems(GNSS/CNSS)	5					2				6/3		6			1																	
Frequency (MHz)	1164	1176	1188	1192	1207	1215	1219	1227	1239	1245	1252	1259	1266	1268	1278	1290	1535	1540	1545	1550	1558	1558	1561	1563	1575	1587	1592	1602	1609	1616	2491	
GPS(USA) L1,L2,L2C,L5	L5+/-12					L2/L2C+/-12										L6+/-5								L1+/-12								
Glonass(Russia) G1, G2											G2+/-7																					
Galileo(European) L1,E1,E2,E5(E5a,E5b),E6	E5+/-15		E5a+/-12 E5b+/-12									E6+/-12		L6+/-5			E2		L1+/-17		E1											
Compass (Beidou 2, China)			B2+/-10									B3+/-10								B1+/-2												
Beidou 1 (China, Tx(LHCP)/Rx(RHCP))																															L	S
IRNSS (India)		L5+/-15																					L1+/-12								S+/-15	
OmniStar															O+/-14---->																	

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## Order Information And Available Options:

