

Alto L-Band Redundant

Amplifier with low noise, high linearity, variable gain and slope control

Model Number: ALT-G1R-S3-101

Typical applications:

- Teleports & Earth Stations
- Satellite Operations

Hot Swap &

replaceable RF

Amplifier module

High Linearity

- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

ALT-G1R-S3-101 is an L-band hot swap low noise & high linearity redundant amplifier, with variable gain and slope control designed to fit into the 1U Genus chassis. The 1U redundancy chassis has the capacity for 1+1. 2+1 and 4+2 hot-swap module configurations.

Amplifier Module



Amplifier Module Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.





Ext 850 freq

Extended L-Band 850-2450 MHz operating frequency range

Ensures overall RF gain signal

performance is optimised

Chassis Options



Local control & monitoring via HMI high resolution touchscreen



Resilience from dual redundant hot -swap power supplies & field replaceable CPU & HMI



Compact indoor chassis options, which can be part populated



Secure protocols with SNMPv3 and HTTPS



Flexible Module Configurations choose from a mixture of amplifier modules with different operating frequencies.



Remote control & monitoring via RJ45

Ethernet port with SNMP & web browser interface



Field replaceable Internal 10MHz reference source and external reference inject port with auto detection (optional)





Indoor Chassis



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irequency Rays irequency Rays Fords Fords Fords Max Am A Am		1:1 Redundant Amplifier Module - RF Parameters					
HF ports 50.0 SMA Sain Max. 42x2 dB Min.	Model Numbers						
Max. Max. Max. Bah Max. 4242 dB Max. F30 to 2450 MHz -7±2 dB Ann Fahres 80 to 2450 MHz -10.0 B Sain Step: 0.0 55.0 G Sain Step: 0.0 25.60.15 dB Sain Step: 0.0 25.60.15 dB Step Contro Range 0.0 25.60.15 dB hour Return Loss: 1.0 25.60 butput Return Loss: 0.0 25.60.15 dB min butput Return Loss: 0.0 25.60.15 dB min butput Return Loss: 0.0 25.60.00 BT Typical butput Return Loss: 0.0 25.60.00 BT Typical butput Return Loss: 0.0 25.00.00 BT Typical butput Return Los: 0.0 25.00.00 BT Typical butput Return Los: 0.0 25.00.00 BT Typical butput Return Los: 0.0 25.00.00 BT Typical butput Return Los: Typ. 0.0 20.00 BT Typical butput Return Los: Typ. 0.0 20.00 BT Typical butput Return Lo	Frequency Range		850-2450 MHz				
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Max. Generation Max. Generation	Noice Figure	Тур.	5.0 dB At max gain setting				
dB GCP Min. 16 dBm At max gain setting DIP3 Typ. 31 dBm At max gain setting DIP3 Typ. 28 dBm At max gain setting DIP3 Typ. 28 dBm At max gain setting DIP3 Typ. 44 dBm At max gain setting DIP3 Typ. 40 dBm At max gain setting Diparting Temperature 54 dBm max. Very low level spuria from CPU clock, switch mode PSU and other control electronics inside the chassis Storage Temperature 10 to 50°C f. for indoor use only Storage Temperature 10,000fr/3000m AMSL Humidity 20 to 90% non-condensing RH Atsimum Input Level 1.35	Noise Figure	Max.	6.0 dB At max gain setting				
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Operating Temperature 0 to 50°C , for indoor use only Storage Temperature -20°C to +75°C . Equipment not powered Attitude 10,000ft/3000m AMSL Aumidity 20 to 90% non-condensing RH ATBF >150,000 hrs. MTBF of each amp module. These are hot-swap Aaximum Input Level +20 dBm. For no damage. None operational. Adule Weight 0.35 kg		Min.	40 dBm At max gain setting				
Storage Temperature -20°C to +75°C . Equipment not powered Ntitude 10,000ff/3000m AMSL tumidity 20 to 90% non-condensing RH ATBF >150,000 hrs. MTBF of each amp module. These are hot-swap Aaximum Input Level +20 dBm. For no damage. None operational. Adule Weight 0.35 kg	In band, signal independent spurii		<-85 dBm max. Very low level spuria from CPU clock, switch mode PSU and other control electronics inside the chassis				
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ATBF >150,000 hrs. MTBF of each amp module. These are hot-swap Aaximum Input Level +20 dBm. For no damage. None operational. Aodule Weight 0.35 kg	Altitude		10,000ft/3000m AMSL				
Maximum Input Level +20 dBm. For no damage. None operational. Module Weight 0.35 kg	Humidity		20 to 90% non-condensing RH				
Adule Weight 0.35 kg	MTBF		>150,000 hrs. MTBF of each amp module. These are hot-swap				
	Maximum Input Level		+20 dBm. For no damage. None operational.				
Spec Version 0.1	Module Weight		0.35 kg				
	Spec Version		0.1				

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Note 3: All specs are for 50 Ohm connectors unless detailed otherwise.

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Media MumberConstraintsFracewardSignal ConstraintsRay ForSignal ConstraintsAna ConstraintsSignal ConstraintsAna ConstraintsSignal ConstraintsAna ConstraintsSignal Constraints<		2+1 Redundant Amplifier Module - RF Parameters					
Rr ports 900 SMA Gain Amplity Max. 3682 dB Gain Amplity Max. 3682 dB Gain Flames Amy 36 dr250 MHz 12.88 Amy 36 dr250 MHz 0.500 SIG 3.88 Gain Stops 0.500 SIG 0.500 SIG Stope Control SHE> 0.700 SIG 0.700 SIG Stope Control SHE> 0.700 SIG 14.025 dB Noture Return Loss 0.700 SIG 10.000 SIG Note Flag Typ. 0.700 SIG 10.000 SIG Note Flag Typ. 0.700 SIG 10.0000 SIG Note SIG Typ. 0.700 SIG 10.0000 SIG Note SIG Typ. 0.700 SIG 10.00000 SIG <th colspan="2">Model Numbers</th> <th></th>	Model Numbers						
Ann GainMaxMaxMaxGain Flahes Gain Flahes Any 5d MHzC11±2 dBGain Flahes Gain StepSo to 2450 MHz4.12 dBGain Step0.025x0.15 dBStope Control Roture0.04 dB (Wet point at 2450 MHz)Stope Control RotureStope Control Roture <t< td=""><td colspan="2">Frequency Range</td><td>850-2450 MHz</td></t<>	Frequency Range		850-2450 MHz				
GeinMn.Inter2ellGein Flames\$80 62450 MLBit De 2450 MLGein FlamesStope Concel Rar	RF ports		50Ω SMA				
Mn.Mn.GenerationAnalogMin.Min.AnalogMin.Min.AnalogMin.Min.AnalogMin.Min.AnalogMin.Min.Sobe Control SoleMin.Min.Sobe Control SoleMin.Min.Sobe Control SoleMin.Min.AnalogMin.Min.AnalogMin.Min.AnalogMin.Min.AnalogMin.Min.Sobe Control SoleMin.Min.AnalogMin.Min.AnalogMin.Min.Sole SoleMin.Min.Sole Sole SoleMin.Min.Sole Sole Sole Sole Sole Sole Sole Sole	Cain	Max.	38±2 dB				
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Spape Control Stey>1±0.25 dBInput Return LosyOutput Return LosyOutput Return LosyReverse GainReverse GainReverse GainIsolationManage Step Step Step Step Step Step Step Ste	Gain Steps		0.25±0.15 dB				
Input Return Loss	Slope Control Ran	ge	0-4 dB (Pivot point at 2450 MHz)				
Output Return Loss Index State Reverse Gain <	Slope Control Step)S	1±0.25 dB				
Reverse Gain <-60 dB Typical	Input Return Loss		14 dB typ. 10 dB min				
Note of the second of t	Output Return Loss		14 dB typ. 10 dB min				
IsolationS0 dB Minimum (With amplifiers set at the same gain level. Worst case isolation is between algacent amps, isolation degrades dB-0-dB for different gain levels.)Noise FigureTp.GG<	Reverse Gain		< -60 dB Typical				
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IdB GCP Min. Min. Image: Min.	Noise Figure	Max.	7.0 dB At max gain setting				
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Min.37 dBm At max gain settingIn band, signal independent spuril<<55 dBm max. Very low level spuria from CPU clock, switch mode PSU and other control electronics inside the chassis		Тур.	41 dBm At max gain setting				
Operating Temperature 0 to 50°C , for indoor use only Storage Temperature -20°C to +75°C . Equipment not powered Altitude 10,000ft/3000m AMSL Humidity 20 to 90% non-condensing RH MTBF >150,000 hrs. MTBF of each amp module. These are hot-swap Maximum Input Level +20 dBm. For no damage. None operational. Model Weight 0.35 kg	UIP2	Min.	37 dBm At max gain setting				
Storage Temperature -20°C to +75°C . Equipment not powered Altitude 10,000ft/3000m AMSL Humidity 20 to 90% non-condensing RH MTBF >150,000 hrs. MTBF of each amp module. These are hot-swap Maximum Input Level +20 dBm. For no damage. None operational. Module Weight 0.35 kg	In band, signal independent spurii		<-85 dBm max. Very low level spuria from CPU clock, switch mode PSU and other control electronics inside the chassis				
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Maximum Input Level +20 dBm. For no damage. None operational. Module Weight 0.35 kg	Humidity		20 to 90% non-condensing RH				
Module Weight 0.35 kg	MTBF		>150,000 hrs. MTBF of each amp module. These are hot-swap				
	Maximum Input Level		+20 dBm. For no damage. None operational.				
Spec Version 0.2	Module Weight		0.35 kg				
	Spec Version		0.2				

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		4+2 Redundant Amplifier Module - RF Parameters
Model Numbers		ALT-G1R-S3-101 (The spec below is for ALT-G1R-S3-101 in 4+2 redundancy configuration with SWF-G1R-S5-103-S5S5)
Frequency Range		850-2450 MHz
RF ports		50Ω SMA
Coin	Max.	36±2 dB
Gain	Min.	-13±2 dB
	850 to 2450 MHz	±1.2 dB
Gain Flatness	Any 36 MHz	±0.3 dB
Gain Steps		0.25±0.15 dB
Slope Control Ra	nge	0-5 dB (Pivot point at 2450 MHz)
Slope Control Ste	eps	1±0.25 dB
Input Return Loss	6	14 dB typ. 10 dB min
Output Return Lo	SS	14 dB typ. 10 dB min
Isolation		60 dB Typical (850-2150MHz) 50 dB Minimum (850-2150MHz) 55 dB Typical (2150-2450MHz) 45 dB Minimum (2150-2450MHz) (With amplifiers set at the same gain level. Worst case isolation is between adjacent amps, isolation degrades dB-to-dB for different gain levels.)
Reverse Gain		< -60 dB Typical
	Тур.	6.0 dB At max gain setting
Noise Figure	Max.	8.0 dB At max gain setting
1dB GCP	Тур.	18 dBm At max gain setting
TUB GCP	Min.	15 dBm At max gain setting
	Тур.	30 dBm At max gain setting
OIP3	Min.	27 dBm At max gain setting
OIP2	Тур.	40 dBm At max gain setting
	Min.	36 dBm At max gain setting
In band, signal independent spurii		<-85 dBm max. Very low level spuria from CPU clock, switch mode PSU and other control electronics inside the chassis
Operating Temperature		0 to 50°C , for indoor use only
Storage Temperature		-20°C to +75°C . Equipment not powered
Altitude		10,000ft/3000m AMSL
Humidity		20 to 90% non-condensing RH
MTBF		>150,000 hrs. MTBF of each amp module. These are hot-swap
Maximum Input Level		+20 dBm. For no damage. None operational.
Module Weight		0.35 kg
Spec Version		0.2

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