

Model Number: ALT-G1S-C5-114-S5S5

Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

Alto C-Band Smart Amplifier

Module with low noise, high linearity, and

variable gain

The C-Band low noise amplifier module is designed to work in the Genus 1U chassis series, operating over 850-4200 MHz. The module has low noise, high linearity, and +38 to 0 dB variable gain. The chassis has the capacity for up to 16 amplifier modules, or can house a mixture of other hot-swap module types.

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.

frequencies.





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C-Band 850-4200 MHz operating frequency range

Hot Swap &

replaceable RF

Amplifier module

High Linearity Ensures overall RF gain signal performance is optimised

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

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)





Local control & monitoring via HMI high resolution touchscreen



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



Compact indoor & outdoor chassis options, which can be part populated











Outdoor Unit



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		Smart Amplifier Module - RF Parameters	
Model Numbers		ALT-G1S-C5-114-S5S5	
Frequency Range		850-4200 MHz	
RF Ports		50 ohm SMA	
Gain (dB)	Max.	38±2	
	Min.	0±2	
Gain Flatness (dB)	Full band	±1.75	
	850 to 2450 MHz	±1.25	
	3400 to 4200 MHz	±1.25	
	Any 36 MHz	±0.25	
Gain Steps (dB)		0.25±0.15	
Input Return Loss (dB)		18 typ., 12 min	
Output Return Loss (dB)		18 typ., 12 mir	1
Isolation (dB)	Тур.	60	With amplifiers set at the same gain level. Worst case isolation is between adjacent amps, isolation degrades dB-to-dB for different gain levels.
	Min.	50	
Reverse Gain (dB)		< -60 typ.	
Noise Figure (dB)	Тур.	6.0 At max gain setting	
	Min.	9.0 At max gain setting	
1dB GCP (dBm)	Тур.	16 At max gain setting	
	Min.	13 At max gain setting	
OIP3 (dBm)	Тур.	26 At max gain setting	
	Min.	23 At max gain setting	
OIP2 (dBm)	Тур.	38	
	Min.	35	
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/Location		0 to 50°C	
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		1.0	

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy. Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



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