AAA12-RM Series

150W to 300W Ku-Band SSPA

Agilis AAA22 Series Ku-Band SSPA (SSPA) is a highly cost effective indoor RF transmitter for satellite communication. Easy to install, it is redundancy-ready and field-proven for any harsh operating environment.

The SSPA is suitable for both data and voice communication operating in different modulation formats including BPSK, QPSK, QAM and FM.

Agilis Ku-Band SSPA offers a wide range of distinctive advantages and enhanced features for satellite communications systems based in remote or challenging geographic regions.

Quality Assurance

100% of all SSPAs go through stringent quality checks in addition to well defined Electrical Stress Screening to ensure operation in harsh environments. The SSPAs are also subjected to seal test for water ingress verification.

Reliability

Field proven under harsh environment conditions, Agilis IDUs can withstand temperature ranging from 0ºC to +50ºC with up to 95% humidity.

Features

- Available for all Ku Freq
- Easy installation
- Temperature compensation
- Redundancy option
- RS232/RS485 & Ethernet (SNMP & HTTP)
- Low spurious
- Low power consumption
- Built-in isolator & receive reject filter
- RF monitor port

Agilis

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Technical Specifications

RF Specifications

Transmit Frequency	13.75GHz – 14.5GHz
Input Frequency Range	13.75GHz – 14.5GHz
Output Power (P1dB)	51.8dBm for 150W 53.0dBm for 200W 54.0dBm for 250W 54.8dBm (Psat) / 54.0 (P1dB) for 300W
Third Order Intermod (two tone)	-25dBc @ two signal 2MHz apart at 3dB backoff from P1dB
Small Signal Gain	55dB typ
Attenuation	20dB with 0.1dB step
Gain Flatness Full Band	±1.0dB
Gain Slope over 40MHz	±0.3dB
Gain Variation over temperature	±1.0dB @ from 0ºC to +50ºC
O/P spurious	According to EN301428
I/P VSWR	1.3:1
O/P VSWR	1.25:1
Noise Power Density Tx BD	-75dBW/4KHz
Rx BD	-150dBW/4KHz

AC Power

Prime Power	230VAC (range 96V to 264VAC)
Power Consumption (Typical)	1.0kW for 150W 1.5kW for 200W 2.0kW for 250W 2.6kW for 300W

Interfaces

IF Input Interface	50Ohms N-type Female
RF Output interface	WR 75G
IP interface	RJ45
Serial Interface	8P circular MIL connector
Front panel display	LCD with keypad for 150W to 200W LCD with touch screen for 250W to 300W

Monitor And Control

Monitor	SSPA temperature Status alarm Output power Reverse Power LED status indication
Control	RF output mute Attenuation
Interface	RS232/RS485 & Ethernet (SNMP & HTTP)
Tx Redundancy	Built-in

Environmental

Operating Temperature	0ºC to +50ºC
Humidity	Up to 95%

Mechanical

Size	19” rack, 4RU height for 150W to 200W 19" rack, 6RU height for 250W to 300W
Weight	28kg for 150W to 200W 35kg for 250W to 300W
Color	Grey

Compliance Standard

IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
FCC Class A	Two levels of radiation and conducted emissions Limits for unintentional radiators (FCC Mark)
Shock	10g, 1ms half sine pluse

Note: All specifications are subject to change without notice.
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Request A Quote

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