



AAA24 Series

Compact 10W
Ka-Band SSPA

This small and lightweight SSPA is ideal for SOTM applications while also offering benefits for fixed and maritime applications.

Designed to be mounted on the feed horn, the SSPA has “Best in Class” efficiency and “lowest power consumption”. Innovative and efficient thermal design makes this SSPA one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

Features

- Compact and lightweight
- Feed mountable
- Best in class efficiency with less power consumption
- Forward power detection facility
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP)
- Automatic fault identification & alarm generation
- Wide operating temperature range -40°C to +60°C
- IP65 rated housing (weather proof construction)
- RoHS compliant

Quality Assurance

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

Reliability

Field proven under harsh environment conditions, Agilis ODUs can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

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Technical Specifications

RF Specifications

Input Frequency	29.0 - 31.0GHz
Transmit Frequency	29.0 - 31.0GHz
Output Power Psat	39dBm (min), 40dBm (nom)
Small Signal Gain	37dB min
Gain Flatness	±2dB over the O/P frequency band
Gain Variation	±2dB over the operating temperature range
Gain Control	10dB in steps of 0.5dB
Inter modulation	-25dBc @ Relative to combine power of two carriers at 3dB total power backoff from Rated Output power
O/P spurious	According to EN301428
I/P VSWR	1.5:1
O/P VSWR	2.0:1

DC Power

Prime Power	24VDC (18VDC to 36VDC)
Power Consumption	100W (typ)

Interfaces

IF Input Interface	K-type Female
Output Interface	WR 28 grooved

Monitor & Control

Monitor	Status alarm RF output power LED status indication
Control	Attenuation RF output mute (On / Off)
Interface	RS232/RS485 & Ethernet (SNMP & HTTP) via external MS connector

Environmental

Operating Temperature	-40°C to +60°C
Relative Humidity	Up to 100% Weather protection sealed to IP65

Mechanical

Size	100L x 100W x 100H mm
Weight	2.0kg
Color	White Powder Coat

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)

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

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