

AAA 21 Series

200W / 400W C-Band SSPA Booster

Agilis AAA 11 Series C-Band SSPA (Solid State Power Amplifier) Boosters offer premium performance and reliable microwave power amplification for satellite hub and remote terminals. Based on state-of-the-art technology, Agilis SSPA provides high RF power and gain stability for uplink applications. It is highly linear with guaranteed output power suitable for multi-carriers operation.

Equipped with efficient thermal management, Agilis SSPAs provides good heat dissipation enhancing long-term reliability. Agilis SSPA can operate as a stand-alone unit or as an addon to boost up the transmit power for VSAT transceivers.

Features

- High RF output power
- Low spurious levels
- · Various output power rating
- Easy installation & configuration
- RF output monitor port
- RF input monitor port
- Built-in Redundancy (optional external Redundancy unit)
- Surge Protection
- Built-in M&C
- Built-in Isolator & Harmonic reject filter

Applications

- Broadcast
- Video conferencing
- Rural Telephony
- Emergency Link restoration
- Point-of-sales
- Hub and VSAT Terminals

Enhanced Monitoring and Control

Agilis SSPA offers M&C via RS485 / RS232 and optional Ethernet interface. It features full remote M&C through Windows using PC.

These include:

- · Tx level monitoring
- Temperature monitoring
- RF inhibit selection
- · Gain control
- · Automatic fault identification & alarm

Reliability

Field proven under harsh environment conditions.

Agilis indoor SSPA can withstand temperature ranging from 0° C to +50°C with up to 100% humidity.

Quality Assurance

Agilis Outdoor SSPAs go through intensive active electrical stress screening with performance being monitored during screening.



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Technical Specifications

Frequency Range (GHz)

5.850 - 6.425Intelsat 5.850 - 6.725Full C

Transmit

Power	Output Power (dBm)	Small Signal Gain (dB)	Power Consumption Typical
200W	53.0	70 Min	1400 VA
400W	56.0	75 Min	2500 VA

Gain Flatness Over Full BW Gain Flatness Over Any 40 MHz **Gain Variation**

Input VSWR **Output VSWR**

Gain Control Range

Inter Modulation

Harmonics (@P1dB) Spurious (@P1dB)

Residual AM (0 - 10kHz) (10 kHz - 500kHz) (500 kHz - 1MHz)

Group Delay (in any 40MHz band)

Linear Parabolic Ripple

Maximum Input Power Noise Figure at Gain max Display

Power Supply Frequency Voltage ±1.5 dB max ±0.4 dB max

±1.0 dB max 20 dB min step 0.1 dB

1:3:1 max 1:3:1 max

-25 dBc Relative to combine power of two carriers at 3dB total power backoff from Rated Output power

- 60 dBc max - 60 dBc max

> -45 dBc max -20 (1.0+logF*) dBc max -80 dBc max

±0.03 nsec/MHz max ±0.003 nsec/ max 1.0 nsec p-p max

+10 dBm (without damage)

10.0 dB max 24 x 2 LCD Display

220 Vac. 1 phase ±10.0%

47Hz ~ 63Hz

Interface

RF Input 50ohms N-Type Female

RF output monitor 50ohms N-type @ 40dB

coupling factor

50ohms CPR137G **RF Output**

waveguide



Monitor And Control

Monitor SSPA Temperature

Status Alarm RF Output Power Reflected power

Control SSPA On/Off Gain Control

Over temperature SSPA shutdown Protection Reflected power shutdown

Interface RS485 / RS232

Optional - Ethernet RJ-45 (SNMP +

HTTP)

Environmental

0°C to + 50°C (Indoor SSPA) **Operating Temperature Relative Humidity** Up to 95°C (Non-condensing)

Cooling Forced Air Cooling

Mechanical

19" rack, 5 RU height Size

Weight 40 kg Colour Grey

Compliance Standard

IEC 60950C International Safety Standard for Information

Technology Equipment

ETSI EN 300 673

Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for Very Small

Aperture Terminal (VSAT)

Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic FTSI FN 301 489-1

Compatibility Standard for Radio Equipment

and Services

Note: All Specifications are subject to changes without notice Ver 300112



For more information, please send enquiry to:

