

# AAA Series C-Band Rack Mount SSPA Booster



Agilis AAA Series C-Band Rack Mount Indoor SSPA (Solid State Power Amplifier) Boosters offer premium performance and reliable microwave power amplification at satellite hub and remote terminals. Based on state-of-the-art technology, Agilis SSPA provides high RF power and gain stability for uplink application. The SSPA is highly linear, suitable for multiple channel operation. With guaranteed P1dB output power, Agilis SSPA provides reliable solution for all customer power transmission requirements.

Equipped with efficient thermal management, Agilis SSPA provides good heat dissipation at all conditions to enhance long term reliability. Agilis SSPA can operate as a stand-alone unit in any C-Band application or as an add-on to boost up the transmit power for VSAT transceivers.

## Features

- High RF output power
- High ICP3 (3<sup>rd</sup> order intercept)
- Low spurious levels
- Various output power rating
- Easy installation and configuration
- RF output sample port
- Available for all satellites bands
- Built-in M&C
- Redundancy system available

## Applications

- VSAT hub and remote terminals
- Video conferencing
- Broadcast
- Rural telephony
- Emergency link restoration
- Point-of-sales

## Enhanced Monitoring and Control

Agilis SSPA offers M&C via RS232/485. It features full remote M&C through Windows using PC or WinCE PDA.

These include:

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

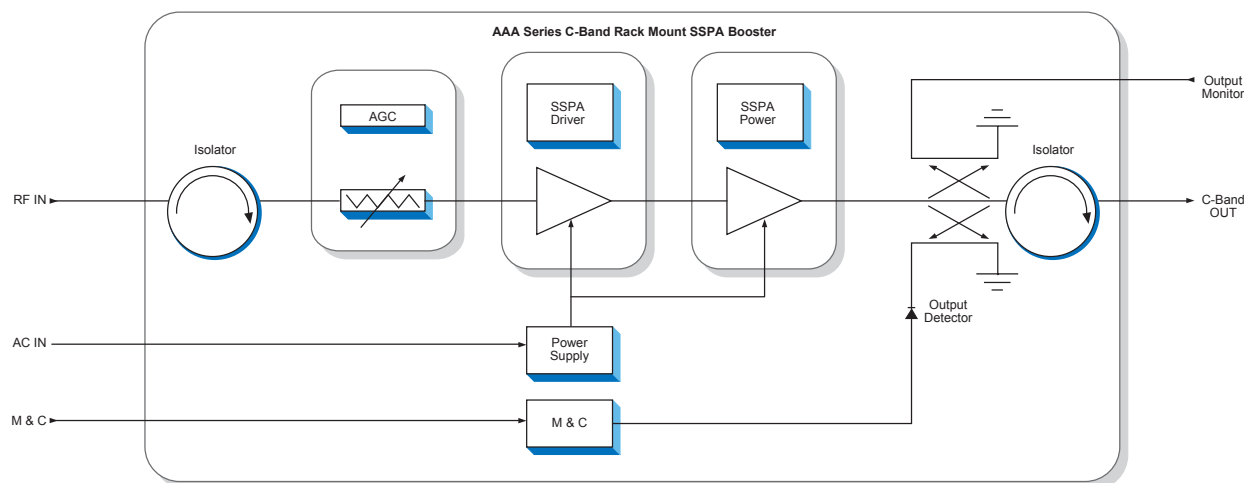
## Reliability

Field proven with system deployed world-wide. Agilis IDU can withstand temperature from 0°C to +50°C up to 95% non-condensing humidity.

## Quality Assurance

All Agilis IDUs are designed and manufactured according to ISO 9001 Standard.

## TECHNICAL SPECIFICATIONS



### Frequency Range (GHz)

Frequency	Transmit
Intelsat	5.850 - 6.425
Gorizont	5.725 - 6.275
Insat	6.725 - 7.025
Full-C	5.850 - 6.725
ST-1/Palapa C	6.425 - 6.725
JCSAT	6.225 - 6.485

### Transmit

Power	Output P1 dB (dBm) min	Gain (dB)	Power Consumption (VA) typ
20W	43	44 - 48	200
30W	45	46 - 50	240
40W	46	47 - 51	280
50W	47	48 - 52	300
60W	48	49 - 53	360
80W	49	50 - 54	500
100W	50	51 - 55	700
125W	51	52 - 56	800
150W	52	53 - 57	1000
200W	53	54 - 58	1200

Gain Flatness Over Full BW	±1.0 dB max
Gain Slope Over 36 MHz	±0.3 dB max
Gain Stability Over Temperature	±1.0 dB max
Gain Control Range	20 dB min
VSWR Input	1.5:1 max
Output	1.5:1 max
Intermodulation Product (with 2 carriers, 1MHz apart, at 6dB backoff from Output @P1 dB)	-25 dBc max
Harmonics (@P1 dB)	-25 dBc max
Spurious (@P1 dB)	-60 dBc max
Maximum Input Power	+10 dBm

### Environmental

Operating Temperature	0°C to +50°C
Relative Humidity	up to 95% (Non-condensing)
Altitude	3600 m AMSL

### Interface

RF Input	50Ω N-type Female
RF Output	CPR1 37G (Optional)

### Monitor And Control

Monitor	SSPA temperature Status alarm RF Input / RF Output power RF Output monitor @-30 dBc nominal Built-in Redundancy control On/Off control
Control	RF Output Power Temperature
User Alarm	RF Output Power
Threshold Setting	Temperature
Interface	RS232 / RS485
Protection	Over Temperature Shutdown
Display	24 x 2 LCD Display

### Power Supply

Input Voltage	220Vac or 110Vac (Factory Preset)
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### Mechanical

Dimensions	342L x 235W x 204H mm	(16W, 25W)
	466L x 318W x 214H mm	(40W)
	406L x 368W x 405H mm	(80W)
Weight	17.0 kg	(20W to 60W)
	25.0 kg	(80W to 150W)
	34.0 kg	(200W)

\* All specifications are subject to changes without notice