

# SSPA Amplifier, Ku-Band

16-200 Watts, Indoor Unit (Rack) or Outdoor Unit  
Redundant Ready



**IDU Rack Model**



**ODU Model**

**Features**

- High RF output power
- Low Spurious levels
- Various output power rating
- Easy installation and configuration
- RF out put sample port
- Available for specific satellite bands
- Surge protection
- Built-in Redundancy Controller (Rack Mount)

**Enhanced Monitor and Control**

Monitor and Control via RS232/485. It features full remote M&C through Windows using a PC. These include

- TX level monitoring
- Temperature monitoring
- RF inhibit selection
- Gain control for rack mount SSPA
- Automatic fault identification & alarm
- SNMP

**Frequency Range**

Standard	Ku	14.0-14.5	GHz
Offset	Kuo	13.75-14.25	GHz
Extended	Kue	13.75-14.5	GHz
Low	Kul	13.0-13.25	GHz
Plan	Kup	12.75-13.25	GHz

**Transmit**

Power	Output P1dB (dB) min	Gain (dB)	Typ AC Power Consumption (VA)
<b>16W</b>	42	12-16	250
<b>25W</b>	44	14-18	300
<b>40W</b>	46	16-20	600
<b>80W</b>	49	19-23	800
<b>100W</b>	50	19-23	1200
<b>150W</b>	51.8	25-30	1800
<b>200W</b>	53	25-30	2800

**Order Examples: RSSPA-Ku(14.0-14.5)-Nf-WR75G-200W-IDU-g11**

**Description:** (Solid State Power Supply, Ku-Band(14.0-14.5GHz), N-Type Female Input Connector, WR75G Output Connector, 200 Watts, Indoor Unit)

**Options:** **Frequency Range (See Table)**

**Watts (See Table)**

**IDU(Indoor Unit) or ODU(Outdoor Unit)**

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Specifications	Units	
Gain Flatness over full BW	±1.0	dB max
Gain Slope over 36 MHz	±0.3	dB max(Rack Mount)
	±0.5	dB max (Outdoor)
Gain Stability over Temperature	±1.0	dB (max) Rack Mount
	±2.0	dB max (Outdoor)
Gain Control Range	20	(Rack Mount SSPA)
Input VSWR	1.3:1	(Max)
Output VSWR	1.5:1	(Max)
Intermodulation	-25	dBc max (with 2 carriers, ±1MHz apart, 6dB backoff from output@P1dB)
Harmonics (@P1dB)	-60	dBc max
Spurious (@P1dB)	-60	dBc max
Maximum Input Power (without damage)	+ 10	dBm (Rack Mount)
	+33	dBm (Outdoor SSPA)
Display	24 x 2 LCD Display	(Rack Mount SSPA)
Power Supply	220 Vac or 110Vac (factory preset)	
<b>Interface</b>		
RF Input	50 Ω N-Type Female	
RF Output	WR75G	
<b>Monitor and Control</b>		
Monitor	SSPA Temperature Status Alarm RF Output Power RF Output monitor -30 dBc	
Control	Temperature threshold setting SSPA On/Off	
Protection	Over temperature SSPA shutdown	
Interface	RS232 / RS485 SNMP (Optional)	
In built Redundancy Control	Yes	
<b>Environmental</b>		
Operating Temperature	-40 to + 60°C (Outdoor SSPA)	
	0 to + 50°C (Rack Mount SSPA)	
<b>Mechanical</b>		
Size	388L x 230W x 189H mm (16W, 25W, 40W)	
	434L x 420W x 232H mm (80W, 100W)	
	TBD (150W, 200W)	
Weight	15.0kg (16W, 25W)	
	20.0kg (40W)	
	28.0kg (80W, 100W)	
	35.0kg (150W, 200W)	
Color	White Powder Coat	

## SSPA Amplifier, Ku-Band

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Mechanical	Rack Mount (Indoor)
Size	19" rack , 3RU height (16W to 40W) 19" rack , 5RU height (80W, 100W)
Weight	25.0 kg (16 to 40W) 34.0 kg (80W, 100W)
Color	Grey

Compliance Standards	
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)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility Standard for Radio Equipment and Services

### Additional information on Rack Mount Requirements for 100W Model

100W Ku Band SSPA is 5 RU.

Transmit side has an internal controller so no additional space required.

For a system including an Up Converter and SSPA 1:1 redundant system

2 x 1U for the Up Converters  
and 2 x 5U for the SSPAs,  
for a total of 12 RU.

Receive side needs a separate controller which is 1RU in height.

2 x 1 RU for the Down Converters  
and 1RU for the Controller  
for a total of 3 RU.