

Outdoor TWTA Product Range



**Europe's dedicated satellite amplifier manufacturer
and equipment specialist**

www.space-path.com

Outdoor Amplifiers

SpacePath's outdoor travelling wave tube amplifiers (TWTA) are engineered to consistently deliver reliable, high efficiency performance in any environment. The comprehensive range of high-power amplifiers support all mission-critical satellite communication segments, including digital satellite newsgathering (DSNG), military satellite communications, large teleports, mobile applications and flyaway systems. As a dedicated satellite amplifier manufacturer and equipment specialist, SpacePath has become a provider of choice among system vendors across the global SATCOM market.

TWTA features

- Compact and lightweight form-factor
- Forward and reverse power monitoring
- Circulator receive band and harmonic filters
- Wide mouth power supply
- Local control panel
- Ethernet port/web browser control
- Redundancy control (up to three waveguide switches)
- Removable air filters



Local control panel display

Removable air filters deliver cost-effective maintenance and convenience
RS-422/232 and Ethernet port are fitted as standard

Optional features

- Internal BUC
- 10 MHz autosense reference
- Linearisers
- Quick waveguide connector
- Exhaust air cowls



All amplifiers are available in redundant and power combined configurations

Power/frequency chart

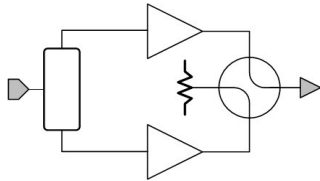
	Band	C	X	Ku	DBS	Ka	Q	V
Power Output (W)	1250			1250	1250			
	750	750	750	750	750			
	500				500	500/550		
	400	400	400	400				
	300					250	250*	
	200			180				
	100					150/175		
	80				80			80*

* Under development

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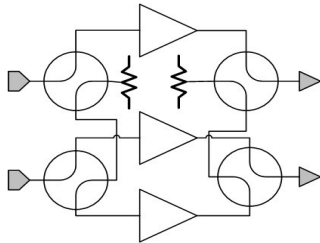
Type	Band	Freq. (GHz)	TWT Power (W)	TWTA Power (W)	TWT Type	Size (mm)	Weight (kg)
C-band							
STA5140	C	5.850-6.425 5.850-6.650 5.850-6.725 5.850-7.025 5.725-6.725 6.725-7.025	400	350	CW	508L x254W x254H	21
STA5175	C	5.850-6.425 5.850-6.650 5.850-6.725 5.850-7.025 5.725-6.725 6.725-7.025	750	650	CW	508L x254W x254H	21
X-band							
STA5240	X	7.90 - 8.40	400	350	CW	508L x 254W x 254H	21
STA5275	X	7.90 - 8.40	750	650	CW	508L x 254W x 254H	21
Ku-band							
STA3318	Ku	13.75 - 14.50 12.75 - 14.50 13.75 - 14.80	180	150	CW	348L x183W x 132.5H	9
STA4340P	Ku	13.75 - 14.50 12.75 - 14.50 13.75 - 14.80 12.75 - 13.25	400	180	Peak	432L x 216W x 216H	16
STA5340	Ku	13.75 - 14.50 12.75 - 14.50 13.75 - 14.80 12.75 - 13.25	400	350	CW	508L x 254W x 254H	21
STA5375	Ku	13.75 - 14.50 12.75 - 14.50 13.75 - 14.80 12.75 - 13.25	750	675	CW	508L x 254W x 254H	21
STA53125P	Ku	13.75 - 14.50 12.75 - 14.50 13.75 - 14.80 12.75 - 13.25	1250	565	Peak	508L x 254W x 254H	21
DBS-band							
STA3408	DBS	17.3 - 18.1 17.3 - 18.4	85	76	CW	348L x 183W x 132.5H	9
STA5450	DBS	17.3 - 18.1 17.3 - 18.4	500	420	CW	508L x 254W x 254H	21
STA5475	DBS	17.3 - 18.1 17.3 - 18.4	750	675	CW	508L x 254W x254H	21
STA54125P	DBS	17.3 - 18.1 17.3 - 18.4	1250	565	Peak	508L x 254W x254H	21
Ka-band							
STA4525P	Ka	27.5 - 30.0 30.0 - 31.0 27.0 - 30.0	250	110	Peak	432L x 216W x 216H	16
STA5525	Ka	27.5 - 30.0 30.0 - 31.0 27.0 - 30.0	250	220	CW	508L x 254W x 254H	21
STA5550	Ka	27.5 - 30.0 30.0 - 31.0 27.0 - 30.0	500	440	CW	508L x 254W x 254H	21
STA5550P	Ka	27.5 - 30.0 30.0 - 31.0 27.0 - 30.0	500	220	Peak	508L x 254W x 254H	21
STA5565P	Ka	27.5 - 30.0 30.0 - 31.0 27.0 - 30.0	650	280	Peak	508L x 254W x 254H	21

Redundant & Power Combined Systems



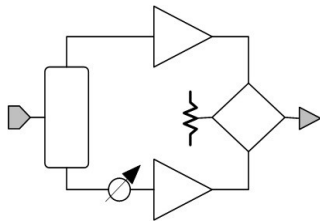
1:1 Redundant Systems

Comprising two amplifiers, indoor controller, cable harness (connecting amplifiers, waveguide switch to indoor controller) external waveguide network, load and waveguide switch.



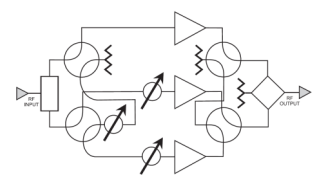
1:2 Redundant Systems

Comprising three amplifiers, touch screen indoor controller, cable harness (connecting amplifiers, waveguide switches to indoor controller) external waveguide network, loads and waveguide switches.



Power Combined Systems

The standard two amplifier power combined system comprises two amplifiers, indoor controller, cable harness (connecting amplifiers, combiner/switch to indoor controller) external waveguide network, combiner, phase adjuster, load and waveguide switch.



1:2 Power Combined Systems

Comprising three amplifiers, with two amplifiers power combined and the third providing the redundant support for the combined system. The system includes waveguide network, combiner, phase adjusters, switches, loads, inter-connecting cabling and full control features.

Setting new standards in customer-driven innovation and performance

SpacePath Communications designs, manufactures and distributes an expanding range of innovative satellite uplink amplifiers and associated equipment, including RF high-power amplifiers (HPA), solid-state amplifiers (SSPA/SSPB), redundant system controllers and sub-systems.



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