

# High Power Amplifiers Comparison

## Modular Solutions for Today's Earth Station

General Dynamics SATCOM Technologies is the world's leading designer and producer of high-performance satellite communications products used in earth stations and teleports worldwide. For over 30 years we have provided operators with reliable RF electronics including modular, ModuMAX and QuadMod high power solid state power amplifiers (SSPA) for modern earth stations to close the link. We continuously strive to improve and develop new innovative products to meet the evolving needs of our customers.

- 100% uptime, fielded over 15 years for single and multi-carrier operations
- Hot-swappable, plug and play modules maximize ease of operations
- Shelters available - Enables amplifiers to be conveniently located next to the antennas
- CE, RoHS, WEE and Reach compliant
- 3 year warranty – All inclusive



### ModuMAX Solid State Power Amplifiers

Power, Psat	3000W	1500W	1000W	800W	2200W	2000W	1250W	700W	1900W	1500W	1100W	800W	500W	350W
Frequency	C-Band	C-Band	C-Band	C-Band	X-Band	X-Band	X-Band	X-Band	Ku-Band	Ku-Band	Ku-Band	Ku-Band	Ku-Band	Ku-Band
Single- or Phase-Combined (PC) Chassis	PC	Single	Single	Single	PC	Single	Single	Single	PC	PC	Single	Single	Single	Single
Operational Life, Years (Typical)	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+
Technology	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaN	GaAs	GaN	GaAs	GaAs	GaAs



### QuadMod Solid State Power Amplifiers

Power, Psat	1500W	800W	500W	400W	1250W	700W	400W	750W	550W	400W	250W	1800W*
Frequency	C-Band	C-Band	C-Band	C-Band	X-Band	X-Band	X-Band	Ku-Band	Ku-band	Ku-band	Ku-Band	S-Band
Single- or Phase-Combined (PC) Chassis	PC	Single	Single	Single	PC	Single	Single	PC	Single	Single	Single	Single
Operational Life, Years (Typical)	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+	12+
Technology	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaAs	GaN	GaAs	GaAs	GaN

\* Consult Factory

# Amplifiers Comparison - SSPAs & SSPBs

## Modular Solutions for Today's Earth Station

- Rack mount, NEMA, antenna mounts, and compact configurations
- Serial and Ethernet interfaces
- Excellent linearity
- CE, RoHS, WEE and Reach compliant
- 3 year warranty – All inclusive



Indoor Rack Mount

### Solid State Power Amplifiers (SSPAs)

Power, Psat	800W - PC	600W - PC	450W	400W	350W	250W	200W	125W	100W	70W	50W	35W	25W
Frequency Bands Available	C	X	C	C	X	C	C, X, Ku	C, X	C, X, Ku	Ku	C, X, Ku	C, X, Ku	C, X, Ku
Amplifier Type	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack



Outdoor NEMA-Enclosure

### Solid State Power BUC (SSPBs)

Power, Psat	800W - PC	600W - PC	450W	400W	350W	250W	200W	125W	100W	70W
Frequency Bands Available	C	C, X	C	C, X	C, X	C	C, X, Ku	C, X	C, X, Ku	Ku
Amplifier Type	NEMA	NEMA	NEMA	NEMA	NEMA	NEMA	NEMA	NEMA	NEMA	NEMA



Antenna-Mount

### Solid State Power BUC (SSPBs)

Power, Psat	250W	200W	125W	100W	70W	50W	35W	25W
Frequency Bands Available	C	C, X	C, X	C, X, Ku, S	Ku	C, X, Ku, S	Ku	Ku
Amplifier Type	Antenna Mount	Antenna Mount	Antenna Mount	Antenna Mount	Antenna Mount	Antenna Mount	Antenna Mount	Antenna Mount



SSPB

### Solid State Power BUC (SSPBs)

Power, Psat	40W	35W	25W	16W	16W
Frequency Bands Available	X, Ku	X, Ku	X, Ku	Ka (29-30 GHz)	Ka (30-31 GHz)
Amplifier Type	CP Series, Compact	CP Series, Compact	CP Series, Compact	SOTM, SNG, Compact	SOTM, SNG, Compact
1:1 Configurations Available	1:1	1:1	1:1	-	-

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