

# New generation of LDMOS based SSPAs for industrial, scientific & medical applications



USING RUGGEDIZED LDMOS TECHNOLOGY, THE NEW CW / PW SSPA FAMILY OFFERS OUTSTANDING PERFORMANCE IN INDOOR OPERATIONS



## Cooling flexibility

Air and liquid cooling solutions available.

## Modularity

Combination in phase of SSPAs delivers output powers up to a few kW on amplification modules.

## Efficiency & Reliability

**Super linearity** for maximum useable output power to provide customised linearity characteristics.

**Robust performance** guaranteed through individual unit testing over temperature at factory.

Built-in output isolator for protection against full reflected power.

## Monitoring & Control

Discrete digital and analog signal interfaces for telemetries, commands and alarms.

## Key Features

- \* Highly efficient
- \* Super high linear power
- \* Superior lifetime based on LDMOS-tech
- \* High MTBF
- \* Compact design
- \* Simple operation & maintenance
- \* User friendly LED indicators/display for local control
- \* Fault & alarm interfaces
- \* Standard 19" rack mounting
- \* ISM uses: industrial, scientific & medical



**OTHER FEATURES**

- \* Air cooled
- \* Standard 19" rack mounting

**OPTIONS**

- \* Customizable input level range
- \* Customizable attenuation adjustment range

 **RF performance**

Input frequency range	3 GHz ±5 MHz
Operating mode	Pulsed wave
Output power ( $P_{1\text{ dB (typical)}}$ )	55.44 dBm
Gain	> 57 dB
Gain flatness	< 1 dB
Input level (nominal)	-2 dBm to 4 dBm
Attenuation adjustment range	6 dB
Input VSWR	<1.4:1
Output VSWR	Full reflection all phases
Pulse characteristics	Pulse width: 100 ms max. Duty cycle: 10 % max. Rise/fall time: <50 ns

 **Power Supply**

Input voltage	AC 100-264 VAC 50/60 Hz
Power consumption @ $P_{\text{SAT}}$	<1200 W

 **Interfaces & Physical**

Dimensions (W x H x D)	483 x 88 x 322 mm / 19" Standard, 2U height
Weight	11 kg
Interfaces	RF input: N-type (f), 50 Ω RF output: N-type (f), 50 Ω RF sample: SMA-type (f), 50 Ω AC line: IEC C14 w/ filter, fused Trigger: BNC-type (f), 50 Ω M&C: Dsub-25 (f)

 **Monitor & Control**

Remote control	Discrete analog / Digital signals
Monitor parameters	Output power / Alarms: current, power supply, temperature & overduity
Internal self protection	Temperature / Fan failure / Overduity / PS failure

 **Environmental**

Operating temperature	10 °C to 40 °C
Storage temperature	-40 °C to +85 °C
Humidity	90 % non-condensing