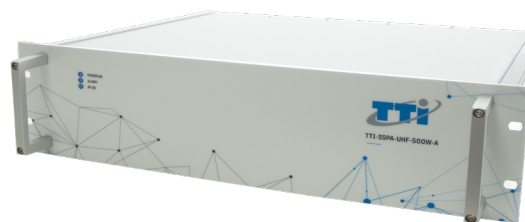


# New generation of LDMOS based SSPAs for industrial, scientific & medical applications



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**s 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**

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

**OPTIONS**

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

 **RF performance**

Input frequency range	500 MHz ±5 MHz
Operating mode	Continuous wave
Output power ( $P_{1\text{ dB (typical)}}$ )	57 dBm
Gain	57 dB
Gain flatness	< 1 dB
Input level (nominal)	0 dBm
Attenuation adjustment range	1 dB (manual)
Input VSWR	<1.3:1
Output VSWR	Full reflection all phases
Spurious	<-60 dBc
Harmonics	2fo ≤ -40 dBc / 3fo ≤ -60 dBc

 **Power Supply**

Input voltage	AC 100-264 VAC 50/60 Hz
Power consumption @ $P_{SAT}$	<1800 W

 **Interfaces & Physical**

Dimensions (W x H x D)	483 x 133 x 492 mm / 19" Standard, 3U height
Weight	15.5 kg
Interfaces	RF input: N-type (f), 50 Ω RF output: N-type (f), 50 Ω AC line: IEC C14 w/ filter, fused M&C: Dsub-25 (f), Dsub-15 (m)
Coolant	Fluid: DI Water Inlet temperature: 15 °C to 30 °C Flow: > 3.5 l/min Inlet pressure: < 5 bar Pressure drop: < 1 bar

 **Monitor & Control**

Remote control	Discrete analog / Digital signals
Monitor parameters	Output power / Current / Alarms: current, power supply & temperature

 **Environmental**

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