

## NEW GENERATION OF SSPAs/BUCs FOR LOAD PULL & SATELLITE COMMUNICATIONS

Using **cutting-edge technology**, the new Q SSPA/BUC family offers outstanding performance in outdoor operation

### INNOVATIVE TECHNOLOGY

State-of-the-art technology offering the very **highest output power** with wideband at Q band: **40-46 GHz in sub-bands of 1.5 GHz**. Outstanding performance within a compact packaging.

### EFFICIENCY & RELIABILITY

Reliable and versatile technology. Options to increase the number of power stages and achieve higher output powers, as well as other frequency bands.

**Robust performance** guaranteed through individual unit testing over temperature at factory. Built-in output isolator for protection against reflected power.

**Advanced packaging** and cooling techniques enable the equipment to be operated in the toughest environments.

### MONITORING & CONTROL

**Full M&C capability** through RS-485/USB (ASCII commands) or with the option of an Ethernet port (Telnet, HTTP with embedded user-friendly web page or SNMP).

Discrete lines for mute and turn on/off functions and a summary alarm (Form C relay and discrete) for speedy operation.



### KEY FEATURES

- \* Satcom & load-pull applications
- \* Highly efficient
- \* Superior lifetime based on GaN-tech
- \* High MTBF
- \* Redundant configurations (1:1, 2:1, N:1)
- \* Weatherproof
- \* Compact design
- \* Simple operation & maintenance



## OPTIONS

- \* Ethernet port
- \* Extended temperature range:  
-40 °C to +60 °C
- \* Monitoring: forward & reverse  
output power
- \* Redundant systems
- \* Remote M&C Panel
- \* Automatic Control Mode:  
AGC, ALC
- \* Output RF calibrated sample port
- \* SNMP

## ACCESSORIES &amp; SPARES

- \* Set of fans

## ELECTRICAL

Operating frequency range	45 - 46.5 GHz (other sub-bands upon request)
Output power ( $P_{SAT}$ (typical))	44 dBm (45-46.5 GHz)
Gain	>70 dB
Gain flatness	$\pm 1.5$ dB p-p max over any 40 MHz
Gain stability over 24 hours	$\pm 0.25$ dB @constant temperature
Gain variation over temperature	$\pm 1.5$ dB over the whole range
Attenuation adjustment range	25 dB in 0.1 dB steps
Input VSWR	<1.5:1
Output VSWR	<1.3:1
Mute	>45 dB
Spurious	<-60 dBc

## POWER SUPPLY

Input voltage	90-264 VAC, 50-60 Hz
Power consumption @ $P_{SAT}$	495 W

## INTERFACES &amp; PHYSICAL

Dimensions (L x W x H)	340 x 210 x 170 mm
Weight	12.6 kg
Interfaces	Input: WR22 (UG599/U or UG-383/U) Output: WR22 (UG599/U or UG-383/U) AC Line: 3-pin MIL circular M&C: RS 4885, Ethernet upon request

## MONITOR &amp; CONTROL

Remote control	RS-485/USB
Monitor parameters	Input power / Temperature / Summary alarms
Internal self protection	Temperature (>75 °C) / Input level / Reflected power

## ENVIRONMENTAL

Operating temperature	-30 °C to +55 °C
Storage temperature	-40°C to +85°C

## TTI CONTACT

sales@ttinorte.es  
www.ttinorte.com

## NOTICE

Information contained in this document is  
subject to change without notice.

Unless otherwise specified, tests have been  
done at 23 °C.