

# Amplifier Unit – GTV2550-20

## L-Band (950 – 2150 MHz)



GTV2550-20-2-00

### TECHNICAL DATA @ 25°C

Type No.	GTV2550-20-n-pm [1]
Number of inputs	1 (each channel)
Number of outputs	1 (each channel)
Architecture	Up to 4 amplifier channels
Frequency range	950 – 2150 MHz useable 850 – 2450 MHz
Amplifier channel	
Gain (fixed) [dB]	20 ± 0.2
Flatness [dB]	± 0.3 (full band)
Noise Figure [dB]	7.0 typ., 8.0 max.
OPIP3 [dBm]	28 min., 31 typ.
VSWR	
Input	1.4:1 typ., 1.55:1 max.
Output	1.4:1 typ., 1.55:1 max.
Input power [dBm] non-destructive	+15 max. CW
Output pwr [dBm] @ 1dB compr.	+15 max.
Impedance [Ω]	50

Connectors	
Input	SMA female
Output	SMA female
Local control	---
Remote control	See options
Power supply	80-264 V AC (47-63 Hz)
Power consumption	<30VA
Temperature range	Indoor use only
Operating	-5 ... +50°C
Storage	-10 ... +60°C
Colour:	Front panel: RAL7021
Attached hardware	Power cord Operating manual
Dimensions (wxhxd)	483mm x 44mm x 360mm (19" drawer, 1U)
Weight	5 - 6 kg
Features	<ul style="list-style-type: none"> <li>High linearity</li> </ul>

### OPTIONS

The following options are available:

- Single power supply
- DC power supply
- Mixed power supply (AC and DC)
- Amplifier monitoring (via LAN)

[1] PART NUMBER SELECTION GTV2550-20-n-pm

n (number of amplifier channels): 1, 2, 3, 4

p (option): 0 → standard (redundant power supply) / 1 → single AC power / 2 → DC supply

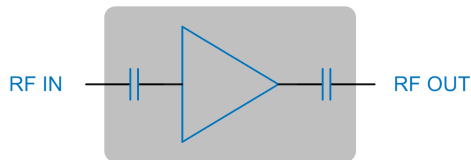
m (option): 0 → without option / 1 → amplifier monitoring

EXAMPLE: GTV2550-20-3-01: 3 amps, redundant power supply, amplifier monitoring



## DESCRIPTION

The amplifier unit contains up to 4 L-band amplifier channels with integrated DC blocking capacitors.



## APPLICATIONS

The GTV2550-20 is designed for long-term installations. Its excellent gain flatness and noise figure makes it suitable for the following purposes:

- Communication satellites & Teleports
- Mobile Marine Satcom
- Weather radar
- Surface ship radar
- Airport surveillance radar
- Air traffic control
- Wireless LAN (IEEE 802.11b and 802.11g standards)

## ABOUT US

**novotronic** is a Germany-based electronics engineering company. **novotronic** specialises in meeting the needs of government and defence, telecommunication, broadcast and aerospace. We have about 25 years experience producing state of the art technology for your applications.

## OUR SKILLS

**novotronic** develops and manufactures technically sophisticated products. As a **certified aerospace and defence company novotronic** operates a quality management system in accordance with ISO 9001:2015 and EN 9100:2018 (equivalent to AS 9100D and JISQ 9100:2016 including ISO 9001:2015).