



## Alcatel 9774-120

## C-band 20W booster amplifier

### Product description

The Alcatel 9774-series of 20W booster amplifier is a modular, fixed gain, high power output device. It is used to boost C-band signals hence increasing the gain of existing transmitters.

The Alcatel 9774-series C-band 5W block-upconverter is typically utilized to drive the A9774-120 booster amplifier.

The excellent linearity and low spurious behaviour allows safe multi-carrier operation.

The unit can easily be configured with a Palm handheld or PC / UNIX station through M&C (RS232 / RS485).

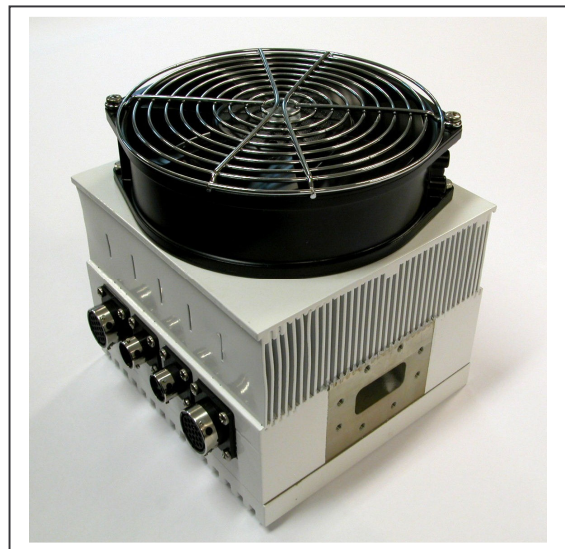
- Monitoring and Control includes:
  - SSPA ON/OFF Status + Control
  - Temperature Monitoring
  - Input level Detect
  - Output Level Detect
  - Fan speed monitoring
- With A9774 series C-band 5W BUC:
  - BUC controlled via Booster M&C
  - Combined BUC + Booster alarms
  - Dynamic levelling and controlled back-off
  - Safe power-on/off sequence
  - Input overdrive protection

### Main Characteristics

- 20 Watt RF Output Power
- High reliability due to enhanced cooling fin design
- Low power consumption
- Lightweight
- Weatherized

### Applications

- Voice, data and digital/analogue video transmissions.
- VSAT applications





## Electrical Specifications

- RF frequency range:  
5850 to 6725 MHz or 6425 to 7025 MHz
- Input level : 36 dBm for P<sup>-1dB</sup> output
- Gain at P<sup>-1dB</sup>, @25°C: 7dB
- Gain flatness over full band :  $\pm 1.0$  dB
- Gain variation over temp. :  $\pm 0.75$  dB max
- Output Power at P<sup>-1dB</sup> : 43 dBm min.
- IM3 levels : -39 dBc  
(2 carriers, each at 9 dB OPBO)
- Harmonics : < -65 dB below rated power
- In-band signal related spuri : < -65 dBc

## General Characteristics

- Input voltage range : 36V to 75 V DC
- Power consumption : 120W
- Operating temperature : -40 to +60°C
- Humidity : up to 100%
- Size : 15cm x 16cm x 16cm
- Weight : 4,2 kg

## Interfaces

- Input : CPR137  
VSWR : 1.5:1
- Output : CPR137  
VSWR : 1.5:1
- M&C : MIL-C-26482-I compatible  
size 14, 19-pins, female
- BUC I/O: MIL-C-26482-I compatible  
size 14, 19-pins, male
- Power : MIL-C-26482-I compatible  
size 10, 3-pins, male
- Fan : MIL-C-26482-I compatible  
size 10, 3-pins, female

## Options

- Compact Redundancy Switch
- Indoor power supply (1U unit)
- Mounting kit
- Programming cable

### Alcatel Contacts

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