



Antenna multicouplers are used in modern receiving stations and provide distribution of antenna signals to several receivers without loss and deterioration of the signal quality.

This antenna multicoupler consists of 16 divider modules each with 1 input and 4 outputs in the frequency range 950 ... 2150 MHz.

## Design

The multicoupler is housed in a 19" subrack with very good RF shielding and consists of the following subassemblies:

- RF amplifier
- power divider boards 4-way
- processor board
- redundant LAN interface for control and monitoring
- redundant power supply unit
- switchable DC bias tees with overload protection

All the necessary signal, power supply and earthing connections are provided at the rear.

The mains switches are located on the front panel.

## **Special features**

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Model number:	GTA2214
Technical data	measured a 25° C

Item number:1300028Configuration:16 power divider modules, each

with

1 input, 4 outputs

Impedance (Ohm): 75

Divider board

Frequency range (MHz): 950...2150
Gain (dB): 0 +/-2.0
Gain flatness (dB): +/-2.0 max.
Noise figure (dB): 15.0 max.
VSWR: 2.0 : 1 max.

Intercept point (dBm):

**3rd order** +10 min. **2nd order** +20 min.

Isolation (dB):

RF specifications

Out/out 18 typ. P1 dBc (dBm): 0 min.

Further specifications

**Control:** LAN, redundant **RF connectors:** F female, 75 Ohm

Power supply (Vac, Hz): 100...240, 48...62, redundant 3-pin, with mains filter & fuses

Mains switches: with integrated lamp

DC bias:

Voltage 13/14/18/19 V each with

22 kHz tone

Current 200 mA nom., 300 mA max.

Temperature range (°C):

Operating 0...50

**EMC:** in accordance to Eur. standard

EN 61000-6-1 & EN 61000-6-3

Dimensions:

 Height (RU)
 3

 Width (inch)
 19

 Depth (mm)
 about 475

(without connectors & handles)

Front panel: painted (RAL7032)