

TMD2216

10MHz Low Noise Frequency Switch, Amplifier and Distributor

Two inputs automated switch

16 Outputs

Low noise frequency amplification

HTTP Monitoring and Control through a web based interface

The TMD2216 equipment provides switching between two 10 MHz frequency sources, amplification and distribution of these frequencies. The internal amplifiers ensure a very low phase noise.

The equipment is in the form of a rack shelf 19 inches high 1U.

This model has 16 independent outputs with the following characteristics:

- Isolation between channels >-50 dB
- Harmonics <-30 dB

Operation

On the front panel, 2 groups of 3 LEDs, combined with 2 push buttons allow to :

- Select the mode Automatic or Manual
- Select the source in manual mode (Source A or Source B)
- Indicate the selected source
- Indicate the source status

Remote control

The remote control of the equipment is done via the network, using HTTP protocol.

It provides information on the equipment status :

- Operating mode
- Track status
- Channel selection



TMD2216 Front Panel

Specifications

Inputs

Both inputs accept level signals from +3 to +13 dBm +-1dBm

Outputs

The outputs provide a maximum level of +13 ± 2 dBm on a 50 Ohm load on the outputs

The input / output ratio is 1 +-1dBm
The outputs are not isolated

Switching

Fault detection time is <40ms
Switching time is <50ms

Redundant AC power

2 * 230V AC Power supply
CEE 2P + T socket with mains filter,
M / A switch
Voltage: 85-264VAC / 47-440Hz
Power consumption: <20W to 230VAC
over 50 Hz per power supply

Connections

The input and output signals are done via the rear panel of the equipment
The connectors for the two inputs and the 12 outputs are non insulated SMA Female type
The remote control connector is an RJ45 type.

Temperature

Operating temperature: -10 ° to 60 ° C
Storage temperature: -20 ° to 70 ° C
Operating relative humidity: 10% to 90% (non-condensing)
Storage relative humidity: 5% to 95% (non-condensing)

Performance

Phase noise (with perfect source)

1Hz -110 dBc/Hz
10Hz -135 dBc/Hz
100Hz -150 dBc/Hz
1KHz -155 dBc/Hz
≥ 10KHz -165 dBc/Hz

Spurious : < -65 dBc
Harmonics : < -30 dBc

Added Phase Noise : +1dBc/Hz

Dimensions

Rack 2U 19" Depth 320 mm

Weight

< 5 Kg

MTBF

> 150 000h

Certification

EU, ROHS and ITAR free

Options

OPT1 : 5 MHz

OPT 3 : Redundant power supply (2U rack)



TMD2216 Back Panel