

TMD1142

TMD1142-R

TMD1142-2R

Redundant 1PPS Amplifier and distributor

Redundant frequency Distributor

Automated switch

Remote monitoring and Control

TTL (option TTL) or RS422 (option RS422) input

The TMD1142-XR equipment provides switching, amplification, and distribution between two 1PPS (TMD1142-R) or 1PPS (TMD1142). The equipment has 10 outputs.

The equipment is a 1U rack mountable 19-inch unit.

options:

- **TMD1142** has 1 PPS input and 10 1 PPS outputs.
- **TMD1142-R** has 2 selectable PPS inputs and 10 outputs.
- **TMD1142-2R** has 2 selectable outputs and 2 power supplies.

Operation TMD1142

On the front panel, a LED displays the status of the power supply.

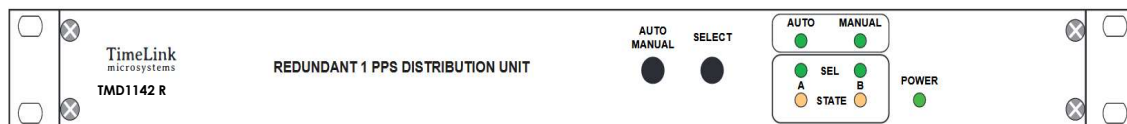
Operation TMD1142-R /2R

On the front panel, two push buttons combined with two groups of three LEDs allow to:

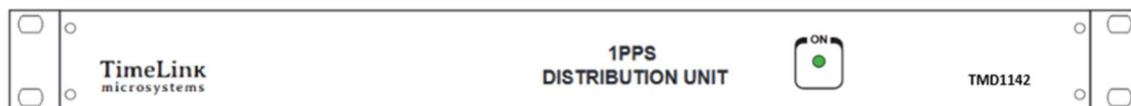
- Select the mode: Automatic switch or Manual switch
- Select the source when in manual mode between Source A and Source B
- Indicate the selected source
- Indicate the status of the source

Remote Control

Remote monitoring and control are done via an Ethernet 10/100 Mbit/s connection using either HTTP or a proprietary UDP protocol. It provides the equipment status and allows configuring the mode of operation.



TMD1142-R or 2R Front Panel



TMD1142 Front Panel

Specifications

Inputs

Option TTL

Inputs 1PPS signals TTL format with a BNC connector

Option RS422

Inputs 1PPS signals RS422 format with a SubD9 connector

Outputs

10 adjustable outputs from 3V to 12V.

Isolated BNC, 50 ohms.

Rising time <50ns.

Switching

Fault detection delay is < 40ms.

Switching time is < 50ms.

Redundant AC Power

Two 230V AC Power Supply.

CEE 2P + T socket with mains filter.

ON/OFF switch.

Voltage: 85-265VAC / 47-64Hz.

Power consumption:<20W

Connections

The input and output signals are located on the rear panel of the equipment. By default, the connectors for the inputs are SubD9 and the 10 outputs are BNC type.

The remote-control connector is an RJ45 type. (only for TMD1142-R, TMD1142-2R.

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)

MTBF

>100 000 h TMD1142

>150 000h TMD1142-2R

Dimensions

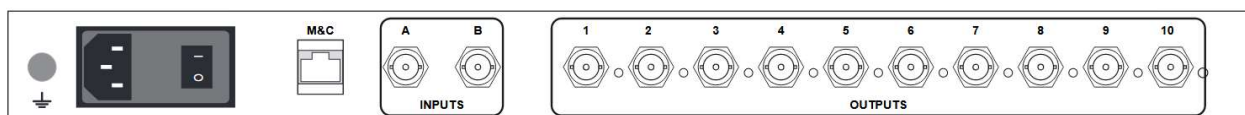
Rack 19" 1U, Depth 280mm (305mm including connectors)

Weight

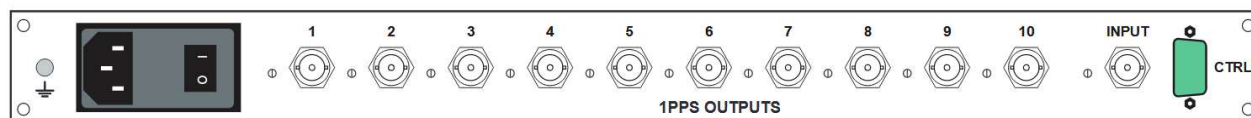
< 3.5 Kg TMD1142, <4,0 Kg TMD1142 R/2R

Certification

Certified CE, ROHS, REACH, ITAR Free & EAR99



TMD1142-TTL-R Back Panel



TMD1142-TTL Back Panel

Ordering Code:

TMD1142-TTL: TTL input

TMD1142-RS422: RS422 input

-R option: Redundant 1PPS inputs

-2R option: Redundant input and power supply

Ex: **TMD1142-TTL-2R** for TTL input, redundant input and redundant power supply.

Please contact us for any further options needed