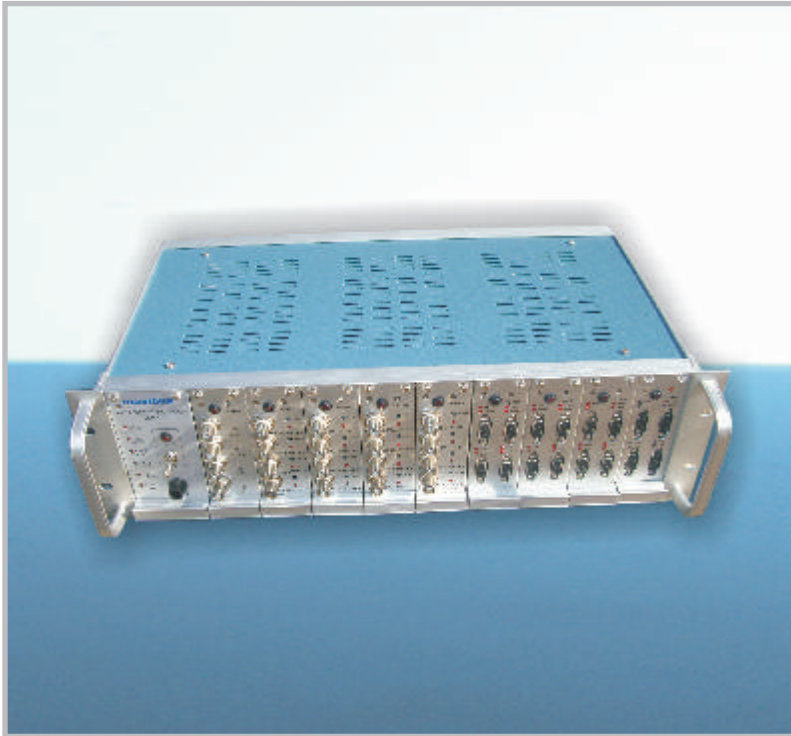


Time Distribution Rack (Model TDR-4)



The Masibus Time Distribution Rack amplifies & distribute different outputs as connected to it rear side. TDR – 4 is housed in a compact 19 ”, 3U rack mounted package. It has nine output card slots and one supply card slot. Time Distribution rack- 4 (TDR-4) is an analog system that accepts signals like 1PPS, IRIG-B TTL, IRIG-B modulated and RS232 from GPS and gives four number of isolated outputs of each signal same as input. High Intensity LEDs are located on the front face to show the equipment status.

There are five different types of output cards 1PPS, IRIGB TTL, RS232, EVENT and IRIGB Modulation. Any card can easily be inserted in any slot. If user requires more than four outputs of any signal, user has to insert two or more respected output cards in card slots as per the requirement.

TDR - 4 has also facility to interface redundant GPS incase of any failure occur with the first GPS. The Masibus GPS signal distributor amplifies & distribute different outputs as connected to it rear side.

A common Power ON LED for power supply on. A common ALARM LED for alarm detection of source signal & source instruments. The equipment detects the pulse presence on each output. All the input on the rear face & all the output signals are located on the front of the equipment.

Features

- *Accept signals like 1PPS,IRIG-B TTL,IRIG-B Mod,RS 232 from GPS*
- *Five Different types of output cards in single rack.*
- *Total 36 outputs available from single rack*
- *Any card can be inserted in any slot*
- *High intensity LEDs on the front for equipment status*
- *Hot Swappable*

TDR-4

masibus
Advanced Automation - Sure Solutions

Time Distribution Rack (Model TDR-4)

TDR-4

Common Features

The masibus Time Distribution Rack amplifies & distribute different outputs as connected to it rear side.

- The equipment is housed in a compact 19", 3U, 260mm rack mounted package.
- High intensity LEDs are located on the front face to show the equipment status.
- A Common Power ON LED for power supply on.
- A Common ALARM LED for alarm detection of Source signal and source instruments.
- The equipment detects the pulse presence on each output.
- All the input on the rear face and all the output signals are located on the front of the equipment.
- Hot Swappable
- Consumption : 35 W [when fully loaded]
- The equipment take power from the main (230 V AC) by Allied standard connector with fuse, filter and On/Off switch. Instrument is also facilitated with the provision of direct 24V DC supply.

Individual Specification

Power Supply Card

- Input range 85 - 264 VAC (wide range) 120 - 300VDC
- Frequency 47-440 Hz
- Inrush current <18A peak @ 115VAC, <36 A peak @230 VAC, cold start @ 25°C
- Input current 1.5A max. (RMS) @ 115 VAC
- Efficiency 70% typical at full load
- Safety ground leakage current <0.5mA @ 50/60 Hz; 264VAC input
- Compliance : FCC Class-B, CISPR22 Class-B, EN55022 Class-B, VDE0878PT3 Class-B

1PPS / IRIG B TTL Card

- 5V TTL input level on BNC, 50Ω, connector.
- 4 nos. of 5V TTL outputs level on BNC, 50Ω, connector.
- 4TT outputs level on BNC + status indication
- The input pulse is distributed without any change in polarity or duration
- Maximum Distance : 10 meters
- Isolation of 2000 MΩ at 1500 VDC from all other ports, input and output and power supply.

IRIG B Modulation Card

- Time Code Amplifier and distributor provide analog IRIG B or any other format, Time code amplification and distribution. The time codes are based on a 1 kHz amplitude modulated (1/3) sine wave carrier.
- In input the equipment receives an analog signal from an external IRIG B source.
- When detecting an input signal, the LED SIGNAL turns on. The amplified signal is distributed over the 4 outputs of the equipment.
- Each of the four outputs could be adjusted. These settings are: the gain of each output amplifier.

- The gain of each amplifier is adjusted by a dedicated potentiometer accessible from front.
- The output level is independently settled for each type of output.
- The analog time code signal connector is a base isolated female BNC
- 1 KHz AM Signal
- 3:1 Modulation Ratio
- 150 Ω Output Impedance
- Isolation of 2000 MΩ at 1500 VDC from all other ports, input and output and power supply.

RS232 Card

- The Time frame distributor allows ASCII frame distribution on
- 4 serial tracks in compliance with RS232 standard
- A front face On LED show that power supply is on
- The output data are diffused with the same characteristics of the available input data
- Transfer speed, parity or number of data bits, couldn't be changed
- 1 input to 4 outputs mode
- The input connectors are Sub'D 9 pins female and outputs are male type
- Isolation of 2000 MΩ at 1500 VDC from all other ports, input and output and power supply.
- DB9 Female Connectors
- Maximum Distance of 50'

EVENT Card

- 1 input 4 outputs
- Four potential free relay outputs are available on the front fascia of the card
- 4 LEDs are available which shows the status of each event.
- One power LED shows status of the power of the card
- Inverted event logic output (refer jumper setting)
- 350 VAC, 120mA maximum
- Isolation of 2000 MΩ at 500 VDC from all other ports input and output and power supply

ORDERING CODE

Model TDR-4										
Card Slot	1	2	3	4	5	6	7	8	9	
	X	X	X	X	X	X	X	X	X	
Select ordering code for each card slot										
	N	None								
	1	IRIG-B Modulated								
	2	IRIG-B TTL								
	3	1 PPS								
	4	RS 232								
	5	1 PPM/ Event								

Eg: If you require 12 nos. IRIG-B modulated & 12 nos. RS 232 nos. output then TDR 4- 111444NNN will be the ordering code.