

PDU-240

Multi Channel Pulse Distribution Unit



The PDU-240 is a high output count and high performance digital pulse distribution amplifier.

The PDU-240 provides 24 output channels of a single reference pulse, typically 1 PPS, IRIG DCLS or Have Quick time code.

The PDU-240 may be configured either as a dual input distribution amplifier with automatic or manual selection, or two independent 12 channel distribution amplifiers fed from two separate sources.

In the 24 channel, dual input configuration, the PDU-240 detects failure of either input reference and provides manual or automatic switchover between the two input pulse reference sources.

The PDU-240 has 24 individually buffered outputs, featuring with output voltages from 3V through 10V available.

Output impedance is user selectable for ease of integration.

Power supply options include 115/230 VAC, 48, 24, or 12 VDC.

The PDU-240 is configured as a 1U 19" rack mount unit. Optional rack mount slides are available.

Features:

- ❑ **Dual inputs with manual or automatic switchover**
- ❑ **24 individually buffered outputs**
- ❑ **Pulse rates from 1ppm through 10MPPS available**

Related Brandywine Products

NFS220: Standalone GPS time and frequency system.

FDU240: Compatible distribution amplifier for 24 frequency outputs 5/10MHz

IBU240: Compatible distribution amplifier for 24 analog time code outputs

FDU160i: Intelligent distribution amplifier with Ethernet interface for 16 frequency outputs 5/10MHz

FDA160i: Intelligent distribution amplifier with Ethernet interface for 16 frequency outputs 1-30MHz

IBU160i: Intelligent distribution amplifier with Ethernet interface for 16 analog time code outputs

SYNCCLOCK Board Level Products:

Advanced board level GPS and IRIG clocks for PCI-e, VME, PMC, and PC104 bus displays.

PDU-240 SPECIFICATIONS

Pulse Outputs	
No of Outputs	24 buffered outputs from the selected input
Pulse	1ppm through 10MPPS
Nominal Output Level	3.3V 5V 10V
Rise Time (10-90%)	0-10V 20ns 0-5V 15ns 0-3.3V 10ns
Load	> 50 ohm
Connector	BNC
Alarm Output	
Connector	Relay contact Form C
Function	DB9 shared with input Loss of Input
Pulse Inputs	
No of Inputs	Two
Pulse	1ppm through 10MPPS
Level	2.5 to 10 V
Impedance	50 /1000 ohm link selectable
Connector	BNC
Alarm Input	
Connector	Relay contact closure or TTL level
Function	DB9 shared with output Status of external source forces reference switch
Controls & Indicators	
Control	Reference Selection Switch A, B, or Automatic
Indicators	Power Reference A selected Reference A available Reference B selected Reference B available Power Fault
Environmental	
Temperature	Instrument: -10 to +50 °C
Humidity	95% non-condensing
Power	115/230 VAC
Optional	12 VDC, 24 VDC, or 48 VDC
Dimensions	19" rack mount, 1.75" (1U) height, 8"
Weight	11 lbs. typical

Ordering Information	
Base Unit	Part Number
2 switched input 24 output 10V level	018000501
2 switched input 24 output 5V levels	018000502
2 switched input 24 output 3.3V levels	018000503
2 independent input 12 output Group 1 10V Group 2 10V	018000504
2 independent input 12 output Group 1 10V Group 2 5V	018000505
2 independent input 12 output Group 1 10V Group 2 3V	018000506
2 independent input 12 output Group 1 5V Group 2 5V	018000507
2 independent input 12 output Group 1 5V Group 2 3V	018000508
2 independent input 12 output Group 1 3V Group 2 3V	018000509
Power Supply Options	
85 - 265 VAC 50/60 Hz	018001000
36 - 72VDC Isolated	018001001
18 - 36VDC Isolated	018001002
9 - 18 VDC Isolated	018001003