

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 of 5V or 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 | 5V 10V |
| Rise Time (10-90%) | 0-10V 20ns 0-5V 15ns |
| 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 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 5V Group 2 5V | 018000507 |
| Power Supply Options | |
| 85 - 265 VAC 50/60 Hz | 018001000 |
| 36 - 72VDC Isolated | 018001001 |
| 18 - 36VDC Isolated | 018001002 |
| 9 - 18 VDC Isolated | 018001003 |