



# 4033A

## 1x15 Pulse Distribution Amplifier 5V Output

### KEY FEATURES

- Detects 1PPS, IRIG-B, or Other
- Compact Rack Mount 1U-High Package
- $\pm 500$ ps Differential Delay Between Outputs
- LED Status Indicators for All Inputs and Outputs
- Status Information via Ethernet

Symmetricom's 4033A is a one-input, fifteen-output pulse distribution amplifier in a 1U, 19-inch rack mount chassis. It provides fifteen isolated outputs from a single input. An Ethernet port on the rear panel provides the capability to remotely monitor the status of the input and all output signals. Any failure in the unit will immediately provide an alarm to the Ethernet port. The front panel provides green LED status for the input and green/red for all output signals, as well as indicating an input of 1PPS, DC IRIG, or Other.



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## 4033A Specifications

### ELECTRICAL SPECIFICATIONS

- 1PPS Output (15)
  - Output impedance: 50  $\pm$ 5 $\Omega$
  - Load impedance: 50 $\Omega$
  - Logic one: 4.5 V minimum
  - Logic zero: +0.8 V maximum
  - Rise time: <2.0 ns
  - Fall time: <2.0 ns
  - Jitter: <50 ps rms
  - Skew between outputs: < $\pm$ 2 ns
  - Connectors: BNC female
- 1PPS Input
  - Repetition rate: 1PPS – 1MPPS
  - Duty cycle: 0 – 50%
  - Input impedance: 50 $\Omega$
  - Logic one: >2.4 V
  - Logic zero: +0.8 V maximum
  - Connector: BNC female
- Status
  - Senses signal presence on all inputs and outputs
  - Green/Red LEDs on Front Panel
  - LED Indicators for 1PPS, DC IRIG, and Other
  - Network (RJ-45 connector)

### ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

- Temperature: 0°C to 50°C
- Humidity: 0 to 95% non-condensing
- AC Input: 90 – 264 V AC, 10 W, 47 – 63 Hz
- Dimensions: 1.75" (4.44 cm) H x 19" (48.26 cm) W x 12" (30.48 cm) D
- Weight: 9 lb (4 kg)



Rear View

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