

4033A

1×15 Pulse Distribution Amplifier 5 V Output



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Features

- Detects 1PPS, IRIG-B, or other
- Compact rack mount 1U-high package
- ± 500 ps differential delay between outputs
- LED status indicators for all inputs and outputs
- Status information via Ethernet

The Microsemi 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 raise 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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Specifications

Electrical

- Input:
 - 1PPS, IRIG (Unmodulated), and Other
 - Repetition rate: 1PPS – 1MPPS
 - Duty cycle: 0 – 50%
 - Input impedance: 50 Ω ±5 Ω
 - Logic one: >2.4 V
 - Logic zero: +0.8 V maximum
 - Connector: BNC female
- Outputs:
 - 1PPS, IRIG (Unmodulated), and Other (15)
 - Output impedance: 50 Ω ±5 Ω
 - Load impedance: 50 Ω
 - 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: <±2 ns
 - Connectors: 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 and Physical Specifications

- Temperature: 0 °C to 50 °C
- Humidity: 0 to 95% non-condensing
- AC Input: 90–264 VAC, 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)

Standards

- Safety: IEC 61010-1:2010 / EN 61010-1:2010
- EMC: EN61326-1 (2006) EMC Requirements for Measurement Control and Laboratory Equipment, Class A
- EN61000-3-2 (2006) +A1+A2 Harmonic Current Emissions
- EN61000-3-3 (2008) Voltage Fluctuation and Flicker Emissions

Ordering Information

(Contact Microsemi for pricing and availability)
 4033A Standard Configuration TSC 4033A

Rear View

