

4033A

1×15 Pulse Distribution Amplifier 5 V Output



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.

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 maximumConnector: BNC female

Outputs:

• 1PPS, IRIG (Unmodulated), and Other (15)

• Output impedance: 50 Ω ±5 Ω

• Load impedance: 50Ω • Logic one: 4.5 V minimum

• Logic zero: +0.8 V maximum

Rise time: <2.0 nsFall time: <2.0 nsJitter: <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

KEY FEATURES

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

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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	
4033A Standard Configuration TSC 4033A	



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