

# 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
- ±500ps 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  $\Omega$  ±5  $\Omega$ 

• Logic one: >2.4 V

• Logic zero: +0.8 V maximum

Connector: BNC female

• Outputs:

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

• Output impedance: 50  $\Omega$  ±5  $\Omega$ 

Load impedance: 50 Ω

Logic one: 4.5 V minimum

Logic zero: +0.8 V maximum

Rise time: <2.0 ns</li>

Fall time: <2.0 ns</li>

Jitter: <50 ps rms</li>

Skew between outputs: <±2 ns</li>

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**





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