

4033A-R

1×15 Pulse Distribution Amplifier 5V Output

Summary

The Microchip 4033A-R 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 to 1MPPS
 - Duty cycle: 0 to 50%
 - Input impedance: $50\Omega \pm 5\Omega$
 - Logic one: $>2.4V$ (typical)
 - Logic zero: $+0.8V$ maximum (typical)
 - Connector: BNC female
- Outputs:
 - 1PPS, IRIG (unmodulated) and other (15)
 - Output impedance: $50\Omega \pm 5\Omega$
 - Load impedance: 50Ω
 - Logic one: 4.5V minimum
 - Logic zero: $+0.8V$ maximum
 - Rise time: <2.0 ns
 - Fall time: <2.0 ns
 - Jitter: <50 ps rms
 - Skew between outputs: <4 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: $0^{\circ}C$ to $50^{\circ}C$
- Humidity: 0 to 95% non-condensing
- Dimensions: 1.75" (4.44 cm) H \times 19" (48.26 cm) W \times 12" (30.48 cm) D
- Weight: 9 lb (4 kg)

Power Requirements

- AC Input: 100-240 VAC, 40-60 Hz 0.5 A

Features

- Detects 1PPS, IRIG-B or other
- Compact rack mount 1U-high package
- LED status indicators for all inputs and outputs
- Status information via Ethernet
- CE compliant

Standards

Safety

- UL 61010-1 (2016) 3rd Edition
- IEC 61010-1 (2010) 3rd Edition
- EN 61010-1 (2010) 3rd Edition

EMC

- EN 61326 (2013) EMC requirements for measurement, control and laboratory equipment, Class A
- EN 61000-3-2 (2014) Harmonic Current Emissions
- EN 61000-3-3 (2013) Voltage Fluctuation and Flicker Emissions

Compliance Marks

- CE
- NRTL
- FCC
- CB Scheme
- KC
- AUS/NZ
- VCCI

Ordering Information

(Contact Microchip for pricing and availability) 4033A-R

Made in USA

Rear View

