4059B  
1x15 Low Frequency Distribution Amplifier (IRIG A/B or G)

The Microsemi 4059B is a one-input, fifteen-output IRIG distribution amplifier in a 1U, 19 inch rack-mount chassis. It provides fifteen isolated (>70 dB) outputs from a single input. This unit is ideal for distributing IRIG A/B or G. 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 this 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 1 kHz, 10 kHz, or other. A green LED on the front panel also provides power status.

**Features**
- Exceptional IRIG A/B or G distribution
- High-channel isolation
- 15 outputs
- Yields 225 outputs at 2nd level
- LED status indicators for all inputs and outputs
- Status information via Ethernet

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## 4059B

### Specifications

#### Electrical Specifications

- **Time code input and outputs (15)**
  - **Code format:** Any
  - **Modulation frequency:** 1 – 100 kHz
  - **Modulation ratio:** Any
  - **Amplitude:** <6 V (peak-peak)
  - **Output isolation:** >70 dB
  - **Gain:** 1 ± 10%
  - **Input impedance:** 50 Ω ± 5 Ω, or 10 kΩ (jumper selectable, 4059B only)
  - **Output impedance:** 50 Ω ± 5 Ω

- **Status**
  - Senses signal presence on all inputs and outputs
  - Green/Red LEDs on front panel
  - LED indicators for carrier frequency – 1 kHz, 10 kHz, and Other
  - Network (RJ-45 connector)

#### Environmental and Physical Specifications

- **Temperature:** 0 ºC to 50 ºC
- **Humidity:** 0 to 95% non-condensing
- **Power requirements (AC input):** 90–264 VAC, 10 W, 47–63 Hz
- **Dimensions:** 1U ~1.75” (4.44 cm) x 19” (48.26 cm) x 12” (30.48 cm)
- **Weight:** 9 lbs (4.10 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
  - EN61000-3-3 (2008) Voltage Fluctuation and Flicker Emissions

### Ordering Information

(Contact Microsemi for pricing and availability)

p/n TSC 4059B 1X15 Low Frequency Distribution Amplifier (IRIG A/B or G)