APOGEE LABS

AL1224
1 PPS & 10/100 MHz Distribution Amps

The AL1224 is a time distribution unit that has two inputs which are independently distributed to six outputs each.
The AL1224 provides for conversion of both inputs to LVTTL level outputs. The unit supports a frequency reference input (sine wave) and a 1 PPS signal input (TTL). This is useful for distributing timing signals from a source to multiple pieces of equipment.
All input connectors are located on rear of unit, while all output connectors are located on front of unit.

- Translates inputs to LVTTL for distribution
- Frequency reference input (sine waveform)
- 1 PPS input (TTL pulse input)
- Each input distributed to 6 outputs
- SMA connectors
- 1U Rackmount Chassis
- LEDs for power and input status

SPECIFICATIONS

INPUTS
- Frequency reference (sine-wave)
  - 1MHz to 100MHz band-pass
  - Up to +15dBm
  - 50 Ohm input impedance (ac coupled)
  - Logic '1' AC signal above 50% energy
  - Logic '0' AC signal below 50% energy
- Digital Input (1 PPS)
  - TTL input (0 to 5V)
  - Logic high signal: greater than 2.0V
  - Logic low signal" less than 0.8V
  - 50 Ohm input impedance (dc coupled)
  - Max input voltage: +7V

OUTPUTS
- Converted frequency reference
  - LVTTL output
  - Low level range: –0.5V to +0.8V
  - High level Range +2.0V to +3.5V
- Converted Digital signal (1 PPS)
  - LVTTL output
  - Low level range: -0.2V to +0.8V
  - High level range: +2.0V to +3.5V

CONNECTORS
- SMA connectors standard
- Other options available—contact Apogee Labs Sales Department

STATUS
- LED indicators
  - Power
  - Analog input present
  - 1 PPS input present

MECHANICAL
- 1U chassis (300 mm deep); 1.75" high
- Standard 19" rackmount

POWER
- 100 to 240V AC, 50 to 60 Hz

ENVIRONMENT
- Operating temperature: 0^0 C to +50° C
- Relative humidity: 0 to 95%, non-condensing

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