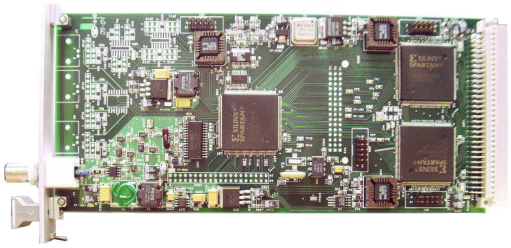
APOGEE LABS

2059 DNG1
DIGITAL NOISE GENERATOR



FEATURES

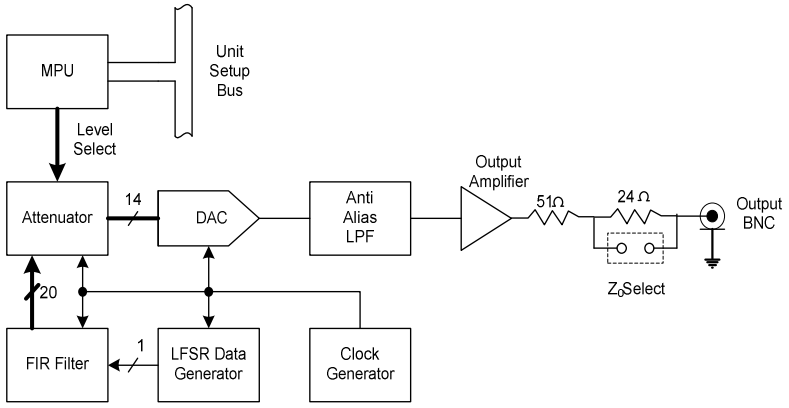
- White Gaussian noise output signal
- 100 Hz to 30 MHz frequency range
- +11 dBm output power
- -62.75 dBm / Hz
- 50Ω / 75Ω output drive on BNC connector
- Single slot module
- BNC connectors, TTL data and 0° clock interface, 50Ω / 75Ω
- Used for link impairment testing

OVERVIEW

The DNG1 Digital Noise Generator module is designed to provide a known, repeatable source of Gaussian noise for use in bit synchronizer and modem testing. The module uses digital signal processing techniques and a high speed digital to analog converter to produce a reference noise source that eliminates time and temperature variations found in other noise generating technologies.

The module is extremely easy to use; there is one operating control which adjusts the output amplitude. Also, there is one user-configurable jumper on the module for impedance matching.

FUNCTIONAL DIAGRAM



SPECIFICATIONS

GENERAL

- Single slot AL63xx module
- Compatible with AL43xx systems

NOISE OUTPUT

- White Gaussian noise output signal
- 100 Hz to 30 MHz frequency range
- +11 dBm output power
- -62.75 dBm / Hz

NOISE OUTPUT (cont'd)

- Crest factor > 8.3
- Digital output attenuator - 0 to 24 dB attenuation selectable in 0.5 dB steps
- 50Ω / 75Ω output drive capability

SETUP CONTROLS

- Via chassis front panel or Ethernet