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HIGHLAND TECHNOLOGY

# V720 electrical-to-optical converter

## Features

- Six channel logic-level electrical-to-optical converter
- Accepts most common electrical logic levels
- Three versions available: 850 nanometer, 1310 nanometer, and 1550 nanometer
- Outputs 1 milliwatt into 62/125 fiber or 9/125 fiber
- Propagation delay below 2 nanoseconds
- Jitter below 12 picoseconds RMS
- Flexible input switching allows channels to share inputs for single-in/multiple-out fanout applications
- Usable in a VME rack, or standalone with available external power supply




The V720 is a six-channel logic-level electrical-to-optical converter, packaged as a single-width, 6U VME module. It may be used with compatible Highland optical receiver modules for fast, low-jitter, EMI-proof distribution of pulses, triggers, and precision timing signals.

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

# Specifications : V720 electrical-to-optical converter

| | |
|---|---|
| FUNCTION | Six channel logic-level electrical-to-optical converter |
| INPUTS | Six logic levels, one GATE input on SMB connectors<br>Inputs accept TTL, ECL, NIM, or adjustable level<br>Switchable input polarity and 50Ω/ HiZ termination<br>Maximum safe input common-mode range: -2 to +3 volts<br>Maximum peak input differential-mode range: ±4.5 volts |
| PROPAGATION DELAYS | Single Channel Electrical to light out: 1.4 ns, typical<br>Daisy chained: add 350 ps per chained channel, typical<br>Gate to optical out: 7.5 ns, typical |
| OUTPUTS | Dash -1 version: Six 850-nm VCSEL lasers, ST connectors<br>Suitable for 62/125µ multi-mode fiber<br><br>Dash -3 version: Six 1310-nm FP lasers, ST connectors<br>Suitable for 9/125µ single-mode fiber<br><br>Dash -5 version: Six 1550-nm FP lasers, ST connectors<br>Suitable for 9/125µ single-mode fiber<br><br>Dash -11 version: Six 850-nm VCSEL lasers, FC connectors<br>Suitable for 62/125µ multi-mode fiber<br><br>Dash -13 version: Six 1310-nm FP lasers, FC connectors<br>Suitable for 9/125µ single-mode fiber<br><br>Dash -15 version: Six 1550-nm FP lasers, FC connectors<br>Suitable for 9/125µ single-mode fiber |
| BANDWITH | DC to 180 MHz repetition rate |
| RISETIME | Optical out: < 250 ps, 10 to 90% |
| JITTER | < 12 ps RMS, typical (V720 + V730 combination) |
| OPTICAL POWER | Factory-set to 1 mW ±15%<br>Typically adjustable < 200 µW to > 1200 µW |
| OPERATING TEMPERATURE | 0 to 60°C; extended MIL/COTS ranges available |
| CALIBRATION INTERVAL | One year |
| POWER | Standard VME supplies:<br>+ 5V: 400 mA, typical<br>+12V: 200 mA, typical<br>- 12V: 1400 mA, typical |
| CONNECTORS | Gold plated SMB logic and GATE jacks<br>ST or FC optical output receptacles<br>D9 male power jack |
| INDICATORS | LEDS: Amber ARM, green GATE, six individual green channel trigger indicators |
| PACKAGING | 6U single-wide VME module<br>The V720 uses only power from the VME bus and passes all grant signals |

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