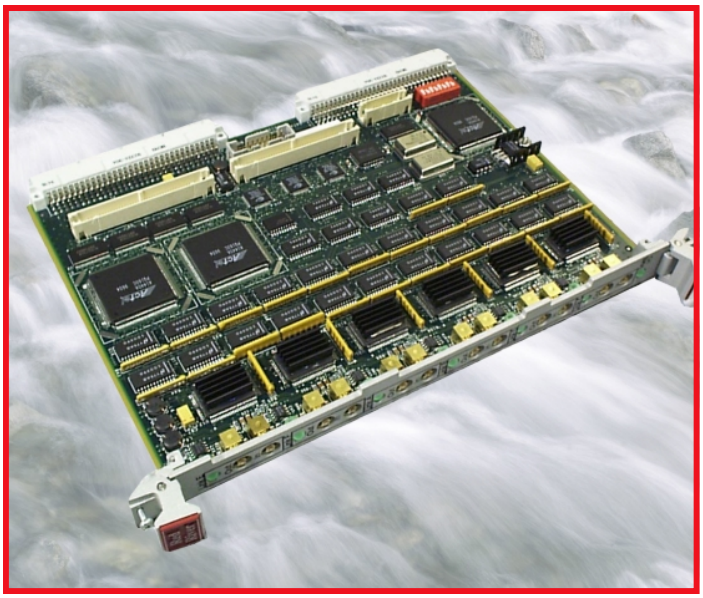
Red River

Switchboard

Model 100



Features

- 6x4 Non-Blocking Data Crossbar Switch
- Six Hewlett Packard G-Link Inputs
- Four 16-bit Parallel Outputs With Clock
- 30 MWords/sec Max Channel Data Rate
- 8x8 Control Bit Crossbar
- VMEbus Control Interface
- Compatible With Most Digital Receivers

Typical Applications

- Multi-Drop Digital Receivers
- Frequency Agile Signal Tracking
- Data Acquisition/Processing Resource

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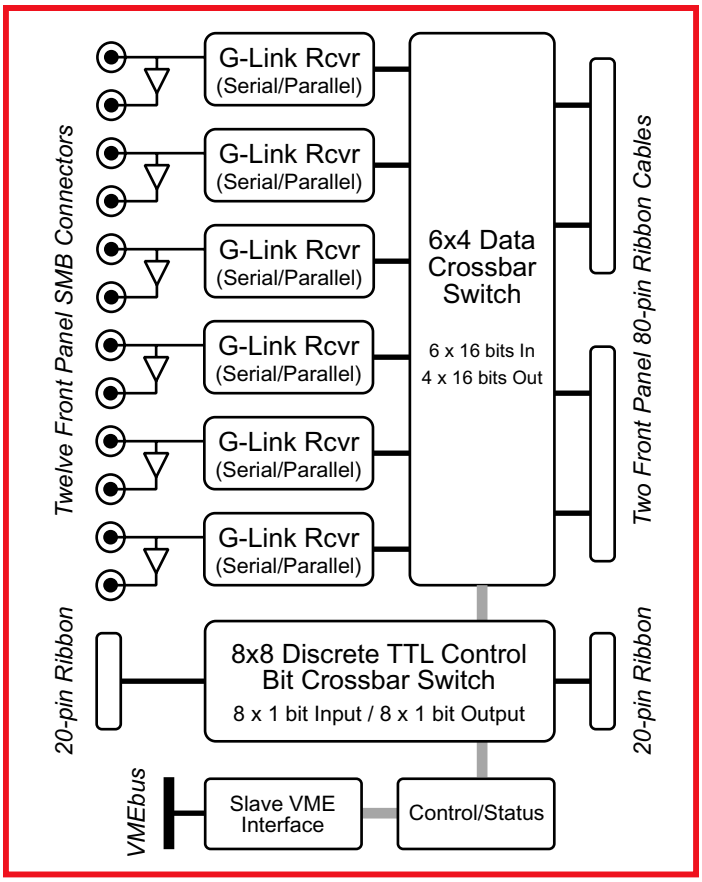
6x4 VME Crossbar Switch

The *Switchboard* 6x4 VME Crossbar Switch combines high-speed serial to parallel data conversion with a non-blocking crossbar switch function to selectively route any combination of six serial data input channels to four parallel output ports. The design utilizes the Hewlett Packard Gigabit-Link (G-Link) receiver to decode and demultiplex serial input data remotely generated by a companion G-Link transmitter. The phase-locked-loop extraction circuit in the receiver provides transparent frame synchronization.

Six front panel SMB connectors accept the G-Link inputs from 50 ohm coaxial cable. To accommodate multi-channel systems, these six inputs are buffered and retransmitted through SMB connectors for daisy chain connection to other channels. Two 80-pin ribbon cables deliver the four 16-bit data outputs through the front panel.

A separate 8x8 crossbar switch is provided for discrete control signals that may be required for system synchronization or event triggering. This switch accommodates TTL signal levels provided on a 20-pin ribbon cable through the front panel.



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