

Performance and reliability in a compact package.

The EQT is a routing solution for mission-critical applications. Its revolutionary design provides easy access to all components for quick replacement, minimizing down time. With this, and the ability to route up to 32x32 signals in a compact 2RU frame, the EQT is ideal for all mission-critical and demanding 24/7 environments.

Being format independent data paths, the EQT supports digital signals from 3Mb/s all the way up to 3Gb/s including SD-SDI, HD-SDI, 3G-SDI, DVB-ASI and SMPTE ST 310-1.



► Features & Benefits

Configuration: The EQT is housed in a 2RU frame and switches 32 sources to 32 destinations. Both the input and output stage of the EQT are fixed at 32 in the coaxial version, and expandable in blocks of two (to a max of 32) in the fiber version.

Control: The EQT router is compatible with the existing ranges of Quartz routers, remote control panels and control systems. The EQT router includes, as standard, an internal frame controller module which supports a single Q-Link, a single serial port and a single Ethernet port on the rear of the router.

The EQT router has a number of control options:

Remote Control Panel: Any panel(s) from the entire range of Quartz remote control panels can be used with the EQT router connected via Q-Link or Ethernet. (Exceptions: CP-1024E, CP-2272E, CP-1040E)

External Third Party Control: The EQT router can be remotely controlled via an external third party control device, such as an automation system, when connected to the serial port.

Expansion: The input and output stage of the EQT is fixed at 32 in the coaxial version and expandable in blocks of two in the fiber version. It can not be expanded beyond its frame size.

Power Supply: The power supply for the EQT router is internal. The EQT router can be fitted with an optional redundant internal power supply that is hot-swappable.

Technical: The EQT router offers a full 3Gb/s bandwidth.

Feature Summary

- Full modular design
- All modules are hot-swappable
- All components are front accessible
- Redundant power supply
- Output reclocking (On/Off)
- Full VistaLINK® PRO command & control, SNMP
- Ethernet, Serial RS-232/RS-422 and Q-Link ports

► Specifications

Serial Video Inputs:

| | |
|---------------------|--|
| Standard: | SMPTE ST 292-1, SMPTE ST 259-1, SMPTE ST 310-1, SMPTE ST 424, ASI |
| Signal Level: | 800mV p-p nominal |
| Impedance: | 75Ω terminating |
| Return Loss: | 15dB (5-1485MHz) |
| Cable equalization: | Belden 1694A 200m @ 270MHz, 150m @ 1.5Gb/s, 100m @ 3Gb/s |
| Connectors | BNC per IEC 61169-8 Annex A |

Serial Video Outputs:

| | |
|---------------|-----------------------------|
| Standard: | Same as input (Reclocking) |
| Signal Level: | 800mV p-p ± 10% |
| Impedance: | 75Ω terminating |
| Return Loss: | 15dB (5-1485MHz) |
| DC offset: | 0 ± 0.5V |
| Connectors: | BNC per IEC 61169-8 Annex A |

Fiber Inputs (-F version):

| | |
|-----------------------|-------------------------------|
| Reclocked Data Rates: | 270Mb/s, 1.485Gb/s, 2.970Gb/s |
| Receive Sensitivity: | -20dBm |
| Receive Wavelength: | 1260 to 1620nm |
| Connectors: | LC |
| Fiber Type: | Single Mode |

Fiber Outputs (-F version):

| | |
|--------------------------|-------------------------------|
| Reclocked Data Rates: | 270Mb/s, 1.485Gb/s, 2.970Gb/s |
| Min. Avg. Optical Power: | -5dBm |
| Output Wavelength: | 1310nm |
| Max Distance @ 3Gb/s: | 10km |
| Connectors: | LC/PC |
| Fiber Type: | Single Mode |

Switching Reference:

| | |
|-------------------|---|
| Reference Inputs: | Analog 625 or 525, Tri-level HD |
| Signal level: | 1V p-p ± 3dB |
| Impedance: | 75Ω |
| Switching Line: | Lines 6/319 (625), Lines 10/273 (525), Line 7 (HD) |

Control:

| | |
|--------------------------|-----------------|
| Q-Link to remote panels: | |
| Cable Type: | 75Ω video cable |
| Max Length: | 500m |
| Serial: | |
| Signal: | RS-232/RS-422 |
| Connector: | D9 socket |
| Ethernet: | RJ-45 |

Power:

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|--------------------------|--------------------------------------|
| Supply: | Auto ranging 100-240V AC, 50/60Hz |
| Power Consumption: | 200W |
| Power Fail Alarm Output: | |
| Relay Contact: | Rated 250mA, 50V |
| Connector: | Screw Terminals |
| Redundant PSU: | Optional |

Physical:

| | |
|---------------------------|--|
| Dimensions: | 19"W x 10.3"D x 3.5"H 482.6mm x 261.62mm x 88.9mm |
| Weight (Frame): | 6 kg, 13.23lbs |
| Operating Temp.: | 0-40°C (ambient) |
| Specification Maintained: | 10-30°C (ambient) |
| Humidity: | 10-90% non-condensing |
| Ventilation: | Fan assisted |

Configuration:

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|-----------------|--|
| Inputs/Outputs: | Fixed at 32x32 (coaxial) Configurable in steps of 2 (fiber) |
|-----------------|--|

► Ordering Information

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|----------------------|--|
| EQT-3232-H | 32x32 SD/HD router, with front accessible, hot-swappable card and power supply, (3Mb/s to 1.485Gb/s) using standard BNC connectors |
| EQT-3232-3G | 32x32 SD/HD/3G router, with front accessible, hot-swappable card and power supply, (3Mb/s to 2.97Gb/s) using standard BNC connectors |
| EQT-3232-3G-F | 32x32 SD/HD/3G router, with front accessible, hot-swappable card and power supply, (3mb/s to 3Gb/s) using SFP fiber connectors |

Ordering Options

+2PS Redundant power supply

Fiber Optic Modules

SFP3T13-2 Dual optical 3G/HD/SD-SDI SFP Transmitter, 1310 nm
SFP3R-2 Dual optical 3G/HD/SD-SDI SFP Receiver

