



The IMTRAN® CQ-10RT is a complete transceiver system for the transmission of multiple uncompressed video, audio, telephony and data signals. This 19" or 23" rack mount unit is fully modular for easy configuration and field maintenance.

The CQ-10RT is intended for bidirectional applications in point-to-point, multipoint or redundant ring networks. One CQ-10RT rack mount chassis houses plug-in modules for ten signal channels, an optical transmitter/multiplexer, an optical receiver/demultiplexer, a remotely controllable drop/add/pass unit and up to four power supplies.

At the CQ-10RT input port, incoming signals are digitized, time division multiplexed (TDM) with additional digitized channels and serialized for optical transmission at 1.25 Gb/s. At a CQ-10RT transceiver or CQ-10 receiver, the incoming light-wave signal is converted to electrical data, demultiplexed and decoded back to analog signal outputs.

FEATURES & BENEFITS

- Uncompressed Digital Video
- Eight 10-bit or Ten 8-bit Channels
- Accepts T1, E1, E3, DS-3, RS-232, Ethernet and RS-449 Modules
- Drop/Add/Pass Functions
- Dual Redundant Power Supplies

APPLICATIONS

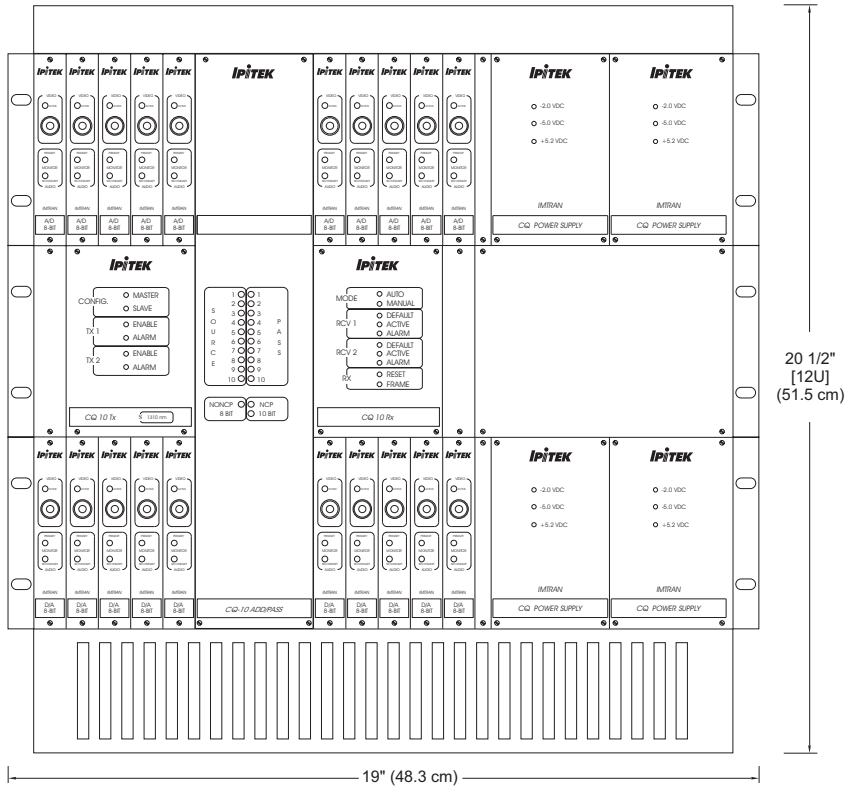
- CATV Supertrunks
- Microwave Alternative
- Live Video Origination
- Distance Learning

The CQ-10RT can simultaneously transmit and receive up to eight 10-bit video channels or ten 8-bit video channels, each with up to 4 channels of audio. Any of these video channels can be replaced with quad T1/E1, dual DS-3/E3, octal RS-232, dual RS-449 or 10 Mb/s ethernet modules, all of which may be hot-swapped into the chassis. Optional dual optical transmitters and receivers, at either 1310 nm or 1550 nm, with automatic fiber switchover maintain very high link reliability. Also, optional dual redundant, load-sharing power supplies protect against system downtime. System control and status monitoring can be done from a remote site.

The drop/add/pass unit provides network functions and multiple, transparent, digital repeats. A CQ-10RT node can "drop" any or all of the signal channels for decoding and/or retransmission. New signal channels can also be "added" in any vacant channel slots for transmission. In addition, it can act as a repeater and "pass" signals to the next node.

MECHANICAL

FRONT



SPECIFICATIONS

Optical

Laser Output Power: 0 dBm
 Receiver Sensitivity: -25 dBm
 Optical Connector: FC/PC
 Optical Fiber: Single mode
 Wavelength: 1310 nm or 1550 nm
 Transmission Rate: 1.25 Gb/s
 Uncompressed Video
 Channels/Fiber per Wavelength: Ten 8-bit, ≥ 56 dB SNR
 Eight 10-bit, ≥ 67 dB SNR

Environmental

Operating Temperature: 0° - 50° C
 Operating Humidity: 85% non-condensing
 Storage: -55° - 75° C, 24 hrs.
 Power: 110/220 VAC
 Optional Power: -48 VDC
 Mounting: 19" rack (23" optional)

ORDERING INFORMATION

(Please specify chassis, power supply, drop/add/pass and transmitter/receiver for each CQ-10 system)

IM - CQ10RT - XXX - XX - F - P

| IMTRAN | Type | Modules | Wavelength | Connector | Polish |
|--------|----------------------------|---|------------------------------|-----------|--------|
| | CQ-10 Receiver/Transmitter | STX = Single Transmitter DTX = Dual Transmitter SRX = Single Receiver DRX = Dual Receiver DAP = Drop/Add/Pass | 13 = 1310 nm 15 = 1550 nm | F = FC | P = PC |

IM - CQ10RT - XXXX **IM - CQ10RT - PS - X - X**

| IMTRAN | CQ-10RT | Type | IMTRAN | CQ-10RT | Type | Input Power | Power Cord |
|--------|---------|--|--------|---------|--------------|--------------------------------|--|
| | | CH19 = 19" Chassis CH23 = 23" Chassis | | | Power Supply | 1 = 110/220 VAC 4 = -48 VDC | 1 = N. America 2 = Europe 3 = U.K. 4 = Switzerland 5 = China |



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