

TORRENT QN24E

24 CHANNEL QAM PCI EXPRESS CARD

Introducing a new generation of OEM DTV products at the lowest cost per stream in the industry.

24 QAM OUTPUT CHANNELS

The QN24e PCI Express QAM host bus adapter is a new member of the Torrent family of high performance, low cost per stream MPEG QAM transmission devices. Based on our new design architecture, the QN24e provides up to 24 RF QAM outputs over four F-type coaxial connectors as well as two Gigabit Ethernet ports on a single PCI Express card. Integral up-conversion to RF output provides the ultimate in flexibility. Software drivers are available for Linux and other UNIX operating systems.



EASY TO MANAGE

The QN24e hardware and device drivers collect and multiplex MPEG-2 transport streams directly from host memory. The resulting multiple program transport streams are modulated and transmitted with up-conversion. They support 16QAM, 32QAM, 64QAM, 128QAM, and 256QAM with variable symbol rates up to 7 Msymbols/second. Forward Error Correcting (FEC) encoding complies with ITU-T J.83 Annex A (DVB/DAVIC/EuroDOCSIS/IEEE802.14), Annex B (DigiCipherII/SCTE/DOCSIS/IEEE802.14), and Annex C (Japan).

- 24 RF QAM channels with 6, 7, or 8 MHz bandwidth
- User selectable 16QAM, 32QAM, 64QAM, 128QAM, and 256QAM modes
- Up-conversion to 50 – 860 MHz RF output
- Two Gigabit Ethernet 1000Base-T ports
- API compatible with other VideoPropulsion DTV PCI products
- PCI Express Version 1.0a
- Optional Pro:Idiom encryption capabilities



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FUNCTIONAL SPECIFICATIONS

Input:

- MPEG-2 Transport streams collected by the card from host memory
- Data can be any combinations of single program transport streams (SPTS)

Output:

- MPEG-2 multiple program transport stream (MPTS)
- Modulated with 16QAM, 32QAM, 64QAM, 128QAM, or 256QAM
- Variable symbol rates up to 7 Msymbols/second
- ITU-T J.83 FEC encoder
- Annex A (DVB/DAVIC/EuroDOCSIS/IEEE802.14)
- Annex B (DigiCipherII/SCTE/DOCSIS/IEEE802.14)
- Annex C (Japan)
- Output carrier: 50 - 860 MHz RF with 12.5KHz resolution
- Output impedance: 75 Ohms
- Output connector: F connector (4)

Primitives:

- Mux initialization, open, close
- Program stream initialization, open, close, stop immediately or stop after stream rundown
- Output stream priming
- PAT/PMT/SDT/NIT/SID table support
- PID remapping and PID drop support
- PCR re-stamping
- Bandwidth management
- Packet size support: 188 byte (204 byte support on request)
- Dynamic Buffer Control

TECHNICAL SPECIFICATIONS

PCI Bus: PCI Express Version 1.0a

Environmental: 5C to 60C operating temperature range
0% to 95% humidity, non-condensing

Device Drivers and API: Linux

Power Requirements: 3.3 VDC @ 4 Amps
12 VDC @ 1 Amp

Frequency Range: 50 to 860 MHz

Channel Plan: Any

Frequency Stability: ± 12 ppm

RF Output Level: 45 dBmV

Output Connectors: F-type RF connector (4)

Output Impedance: 75 Ohms

Ethernet: (2) 1000Base-T RJ45 connectors



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Product specifications are subject to change at any time and without prior notice.

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