

Q-Series

Q-1300 Modular Chassis

*High Reliability - Rack Space Saving
Video, USB HID and Audio
Extension Solution*



Q-1300 Chassis

Interface Modules

Module Options (sold separately):

Q-Series Dual Peripheral Extension Module: USB HID and Audio

Velocitydvi Module 3: One single-link DVI display

Velocitydvi Module 3 A/V+: One single-link DVI display, audio and serial

Velocitydvi Module 3 A/N+: One single-link DVI display, audio and network

Velocitydvi Module 6: One dual-link DVI display

Velocitydvi Module 6 A/V+: One dual-link DVI display, audio and serial

Velocitydvi Module 6 A/N+: One dual-link DVI display, audio and network

Velocityrgb Module 10: One RGB or DVI display, audio and serial

SDI Xtreme 3G+ Module: Two SD/HD signals or one 3G/dual-link signal and RS-422

Fiber Options Include:

Single-Mode

Multi-Mode

The Logical Solution - Modular Video, USB HID, Audio and Network Extension

The Q-1300 chassis allows users to locate DVI monitors, SDI monitors and peripheral devices from just a few meters up to 40 kilometers away (via fiber) from the controlling computer, securely and without the loss of resolution. The Q-1300 chassis is a space saving, high reliability solution providing a rack mount chassis for one module of DVI and/or SDI and USB HID/Audio in a compact size. In addition, DVI and dual-link DVI modules are available with options for audio and networking. Each SDI module supports two SD/HD signals or one 3G signal (as well as dual-link HD-SDI). The USB HID modules provide for two separate signal streams for increased system flexibility.

Q-Series DVI modules are powered by Thinklogical's cutting edge, patent-pending MRTS (Multi Rate Transmission System) technology. MRTS provides seamless transport of every frame of a DVI video stream, with no compression or dropped frames. Ready for the challenges of demanding applications, the Q-1300 can combine any variety of DVI or SDI modules and dual USB HID modules in transmit/receive units for a space saving and cost effective solution.

The Q-1300 is a total system solution providing industry leading performance and full compatibility with Thinklogical's entire line of VelocityDVI extenders, SDI Xtreme 3G+ extenders, as well as the VX Router line. Providing reliable media conversion for a wide variety of applications, it is an ideal solution for commercial A/V, command and control centers, universities, large scale digital signage, broadcast, corporate studio applications including video production and editing, sports tele-production, field production, cross-town fiber links, cross on-campus production, pre-fibered venues, courtesy feeds, and many more.

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Installation possibilities are expanded with built-in support for either multi-mode or single mode fiber, making this a convenient and cost effective solution to combat the restrictions involved with the distribution of uncompressed broadcast quality video signals over long distances. In addition, the standard SFP+ optics (with LC connectors) are hot swappable/pluggable.

Key Features

- Interface module options (sold separately):
 - Q-Series Dual Peripheral Extension Module: USB HID and Audio
 - Velocitydvi Module 3: One single-link DVI display
 - Velocitydvi Module 3 A/V+: One single-link DVI display, audio and serial
 - Velocitydvi Module 3 A/N+: One single-link DVI display, audio and network
 - Velocitydvi Module 6: One dual-link DVI display
 - Velocitydvi Module 6 A/V+: One dual-link DVI display, audio and serial
 - Velocitydvi Module 6 A/N+: One dual-link DVI display, audio and network
 - Velocityrgb Module 10: One RGB or DVI display, audio and serial
 - SDI Xtreme 3G+ Module: Two SD/HD signals or one 3G/dual-link signal and RS-422
- MRTS technology 6.25Gbps allows for full frame rate transmission of uncompressed DVI
- All models are available with standard LC type fiber connectors
- Supported SDI Standards - SMPTE 424M, 292M, 259M, 372M and 425 level A and B compliant
- Single-mode or multi-mode fiber options extend signals up to:
 - 350 meters using multi-mode fiber type OM2
 - 750 meters using multi-mode fiber type OM3
 - 1000 meters using multi-mode fiber type OM4
 - 40 kilometers (24 miles) using single-mode fiber
- Stereo emitter for active 3D applications
- Simple plug and play
- A dry contact annunciator provides an alarm warning in the event of a power failure or a unit overheating
- Fully compatible with Thinklogical's Velocitykvm, Velocitydvi and SDI Xtreme 3G+ Extension Systems
- Fully compatible with Thinklogical's VX Routers

Specifications

Operating Temp.	0°-50°C; (32°-122°F)
Humidity	5-95% RH, non-condensing
Dimensions	Height: 1.72" (4.4 cm) Depth: 10.66" (27.1 cm) Width: 5.55" (14.1 cm) (Tolerance: ± .039"; .100cm)
Weights	Weight: 1 lbs (0.45 kg) per unit Shipping Weight: 9 lbs (4.08 kg) pair
Power Consumption	< 5 watts
Optical Cable	Single-mode and multi-mode
Supply Voltage	100-240 VAC, 50-60 Hz Universal AC power supply Fiber is available, not supplied
Optical Distance	Up to 100 meters using 62.5/125um, type OM1; Up to 350 meters using 50/125um, type OM2; Up to 750 meters using 50/125um, type OM3; Up to 1000 meters using 50/125um, type OM4; Up to 40 kilometers using 9/125um, type OS2 (single-mode)
Compliance	Approvals for US, Canada, and European Union
Warranty	12 months from date of shipment - extended warranties available

Connectors

Transmitter		Receiver	
Video	Velocitydvi Module 3 and 6 DVI-D (2) SDI Xtreme 3G+ BNC (2)	Video	Velocitydvi Module 3 and 6 DVI-D (2) SDI Xtreme 3G+ BNC (2)
Audio MIC	3.5mm Jack	Audio MIC	3.5mm Jack
Audio LINE	3.5mm Jack	Audio LINE	3.5mm Jack
RS232 Port - Velocitydvi	RJ45	Serial Port	RJ45
RS422 Port - SDI Xtreme 3G+ DB9 Female		Serial Port	DB9 Female
Network	RJ45 Female	Network	RJ45 Female
Fiber Connectors	LC for Multi-Mode and Single-Mode	Fiber Connectors	LC for Multi-Mode and Single-Mode

Cables Included: USB A to USB B cable, 1.8 meters

Cables Included: USB A to USB B cable, 1.8 meters

Module 3 Models:

Single-link DVI-D, 2 meters (1)

Module 6 Models:

Dual-link DVI-D, 2 meters (1)

A/V+ Models:

Single-link DVI-D, 2 meters (1) or Dual-link DVI-D, 2 meters (1)

3.5 mm male to male, 1.8 meters (2)

RJ45 cable, 2 meters (2)

DB9M-RJ45 (ADP-000019-R) (1)

DB9F-RJ45 (ADP-000025-R) (1)

A/N+ Models:

Single-link DVI-D, 2 meters (1) or Dual-link DVI-D, 2 meters (1)

3.5 mm male to male 1.8 meters (2)

RJ45 cable, 2 meters (2)

Q-Series Ordering Information

VQS-001300 Q-1300 QUAD MODULE RACK MOUNT CHASSIS

Q-Series Compatible Modules:

VQM-HA0006-LCTX Q-SERIES MODULE, DUAL HID AND UNBALANCED AUDIO CONNECTIONS, TX, LC

VQM-HA0006-LCRX Q-SERIES MODULE, DUAL HID AND UNBALANCED AUDIO CONNECTIONS, RX, LC

VQM-000003-LCTX Q-1300 MODULE, SINGLE LINK DVI, DDC, TX, LC

VQM-000003-LCRX Q-1300 MODULE, SINGLE LINK DVI, DDC, RX, LC

VQM-000006-LCTX Q-1300 MODULE, DUAL LINK DVI, DDC, TX, LC

VQM-000006-LCRX Q-1300 MODULE, DUAL LINK DVI, DDC, RX, LC

VQM-AV0003-LCTX Q-1300 MODULE, SINGLE LINK DVI, DDC, AUDIO, SERIAL, TX, LC

VQM-AV0003-LCRX Q-1300 MODULE, SINGLE LINK DVI, DDC, AUDIO, SERIAL, RX, LC

VQM-AV0006-LCTX Q-1300 MODULE, DUAL LINK DVI, DDC, AUDIO, SERIAL, TX, LC

VQM-AV0006-LCRX Q-1300 MODULE, DUAL LINK DVI, DDC, AUDIO, SERIAL, RX, LC

VQM-AN0003-LCTX Q-1300 MODULE, SINGLE LINK DVI, DDC, AUDIO, NETWORK, TX, LC

VQM-AN0003-LCRX Q-1300 MODULE, SINGLE LINK DVI, DDC, AUDIO, NETWORK, RX, LC

VQM-AN0006-LCTX Q-1300 MODULE, DUAL LINK DVI, DDC, AUDIO, NETWORK, TX, LC

VQM-AN0006-LCRX Q-1300 MODULE, DUAL LINK DVI, DDC, AUDIO, NETWORK, RX, LC

VQM-000010-LCTX Q-SERIES MODULE, RGBHV, DVI-I, AUDIO, SERIAL, MULTI-MODE, RX, LC

VQM-000010-LCRX Q-SERIES MODULE, RGBHV, DVI-I, AUDIO, SERIAL, MULTI-MODE, RX, LC

SDM-M100X1-LCTX SDI XTREME 3G+ with RS422 RACK MOUNT MODULE, TWO INPUT MULTIPLEXER, ONE SFP, TX, LC

SDM-M100X1-LCRX SDI XTREME 3G+ with RS422 RACK MOUNT MODULE, TWO INDIVIDUAL DE-MULTIPLEXED SDI OUTPUTS, ONE SFP, RX, LC

SDM-L100X1-LCTX SDI XTREME 3G+ with RS422 RACK MOUNT MODULE, ONE INPUT WITH LOOPOUT, ONE SFP, TX, LC

SDM-C100X1-LCRX SDI XTREME 3G+ with RS422 RACK MOUNT MODULE, TWO SDI OUTPUTS, ONE SFP, RX, LC

SDM-000MX1-LCTX SDI XTREME 3G+ RACK MOUNT MODULE, MULTIMODE, TX, LC

SDM-000MX1-LCRX SDI XTREME 3G+ RACK MOUNT MODULE, MULTIMODE, RX, LC

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