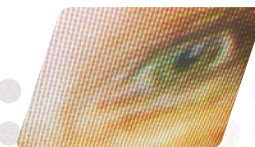


MPEG Encoders

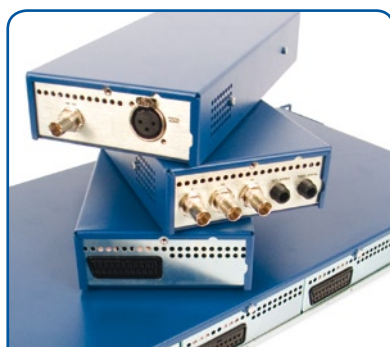
FROM EXTERITY

Stream from consumer, professional and broadcast video sources



Welcome to the revolution

IN DIGITAL MEDIA



Key Features

- Plug any composite, Y/C, RGBs, RGsB or YsCbCr video sources into network
- High-quality MPEG-2 or MPEG-4 video encoding from 128Kbps to 15Mbps at fixed and variable bitrates
- Range of video resolutions include QCIF, SIF, CIF, 1/2D1, 4CIF and D1
- Automatic channel announcements inform video clients of channel availability
- Infra-red control of connected AV source
- Compatible with streaming video clients including Apple QuickTime and Windows Media Player
- Compatible wired and wireless IP networking standards

Product Overview

Connect consumer, professional and broadcast AV equipment to your LAN and create a stream of high-quality digital media available to every device on the network. Stream bitrates from 128Kbps to 15Mbps allow distribution over wired, wireless, internet and WAN network infrastructures.

Exterity AV encoders support MPEG-2 encoding from 1.5 Mbps to 15Mbps at D1 video resolution. The AV encoder uses a SCART socket interface with support for composite, s-video and RGB video Exterity PRO and SDI encoders support MPEG-2 and MPEG-4 encoding from 128Kbps to 15Mbps over a range of encoded video resolutions from QCIF to D1.

Exterity MPEG encoders are available as portable single channel devices, idaptors, or as a 1u high 19" rack mounted chassis that supports three simultaneous MPEG encoding channels, tridaptors.

Applications

- **Corporate:** Broadcast live and recorded corporate events, training videos, security and TV feeds over corporate LAN. Accessible to all PCs and displays on network.
- **Education:** Enhance the learning environment with live education, information, news and entertainment content delivered anywhere on the campus network.
- **Hospitality:** Extend the range of TV and video channels available in hotels, hospitals and other hospitality venues.
- **Broadcast:** Distribute broadcast video content over network for editorial review on PC and preview on displays.

Benefits

- **Simplifies** distribution of digital TV, radio and video channels across building or campus networks to displays, projectors and desktop PCs.
- **Integrates** seamlessly with Exterity AV networking products to provide an end-to-end building IPTV solution.



idaptor AV encoder

Encodes video inputs to MPEG-2 from sources such as DVD players, set top boxes and video Cameras

Video Input

- Single channel
- SCART socket
- Composite, RGBS or S-video
- PAL/NTSC auto-switching

MPEG-2 Encoding

- Main Profile @ Main Level
- D1: 1.5Mbps – 14Mbps
- Constant or variable bitrate

Audio Input

- Unbalanced stereo
- Audio sampling rate 44.1 KHz

Audio Encoding

- MPEG-1, Layer 2
- Audio encoding bitrate 224 Kbps Power

Power

- Power Consumption, 5W (typical), 6W (max)
- Integrated 802.3af power-over-Ethernet

idaptor PRO encoder

Encodes video inputs into MPEG-2, MPEG-4 and H.263 formats and also supports unbalanced and balanced stereo audio

Video Inputs

- Single channel
- Composite, RGB, YsCbCr
- BNC, 1V p-p, 75Ω
- PAL /NTSC auto-switching
- 4:3/16:9 aspect ratio

MPEG-2 Encoding

- Main Profile @ Main Level
- QCIF, CIF, SIF, 1/2D1, D1
- 128Kbps – 15Mbps
- Constant or variable bit rate

MPEG-4 Encoding

- Simple Profile @ L1, L2 and L3
- QCIF, CIF, SIF, 1/2D1, D1
- 128Kbps – 15Mbps
- Constant or variable bit rate

H.263 Encoding

- Baseline
- QCIF, CIF, 4CIF
- 128Kbps – 15Mbps
- Constant or variable bit rate

Audio Input

- Twin jack sockets
- Unbalanced stereo
- Balanced stereo
- AES

Audio Encoding

- MPEG-1, Layer 2
- Encoding bitrate 32Kbp – 384 Kbps
- Audio sampling rate 48 KHz

Power

- Power Consumption, 10W (typical), 15W (max)

Common

Network Interfaces

- 802.3 10/100BaseT

Network Protocols

- TCP, UDP, DHCP (client), IGMP Media Streaming Protocols
- RTSP, RTP/RTCP, SDP, SAP
- Unicast, Multicast

IR Output

- Control of AV source device

Management

- SNMP, TFTP, HTTP
- Web management interface
- Serial admin port

idaptor Power

- Operating Voltage, 24V
- External power supply included
- 3.5mm jack, centre positive

idaptor Dimensions

- L:255mm x W:112mm x H:45mm
- W:1.3Kg (excluding power supply)

Environment

- Operating Temperature 0 ... +40°C / +32 ... +122°F
- Storage Temperature -20 ... +70°C / -4 ... +158°F

Regulatory

- CE compliant



idaptor SDI encoder

Encodes broadcast serial digital input

Video Inputs

- Single channel
- SDI (with or without embedded audio)
- BNC, 1V p-p, 75Ω
- PAL /NTSC auto-switching
- 4:3/16:9 aspect ratio

MPEG-2 Encoding

- Main Profile @ Main Level
- QCIF, CIF, SIF, 1/2D1, D1
- 128Kbps – 15Mbps
- Constant or variable bit rate

MPEG-4 Encoding

- Simple Profile @ L1, L2 and L3
- QCIF, CIF, SIF, 1/2D1, D1
- 128Kbps – 15Mbps
- Constant or variable bit rate

H.263 Encoding

- QCIF, CIF, 4CIF
- 128Kbps – 15Mbps
- Constant or variable bit rate

Audio Input

- XLR
- SDI embedded audio (single audio pair from eight available)
- AES

Audio Encoding

- MPEG-1, Layer 2
- Encoding bitrate 32Kbp – 384 Kbps
- Audio sampling rate 48 KHz

Power

- Power Consumption, 10W (typical), 15W (max)



tridaptor encoder

Chassis which allows any 3 of the Encoder modules to be mounted in a standard 19" rack

Video Input

- Up to three channels

Network Interfaces

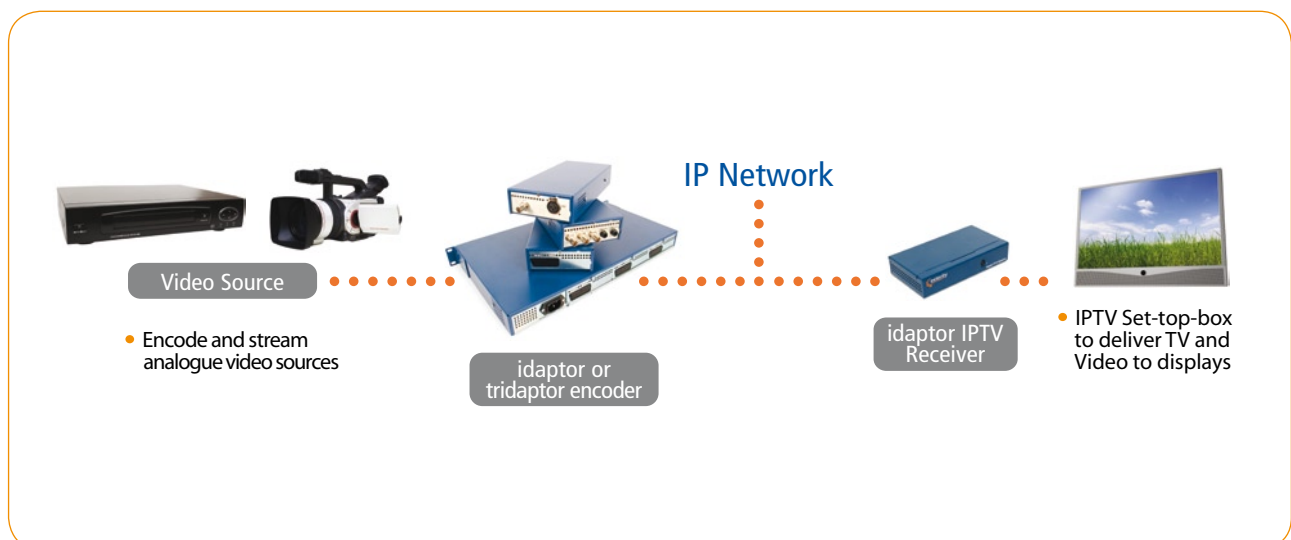
- 802.3 10/100BaseT Ethernet per encoder channel

Power

- Operating Voltage, 240V
- Power Consumption 10W – 50W depending on configuration
- Internal power supply
- IEC power lead

Dimensions

- 1u high, 19" rack compliant
- L:255mm x W:437mm x H:45mm
- W:5.2Kg





Applications

Corporate

- Deliver relevant corporate and knowledge content over corporate networks direct to employees desks, meeting rooms and public areas.
- Used to provide staff with business critical information, e.g. news channels to trading floors in the City, training and education, and general news and information, e.g. TV in canteens and public areas and general company communications.

Education

- Deliver educational TV and video content to classrooms or to student PCs. Both live and recorded content and foreign language TV from satellite sources.
- Providing news, information and entertainment TV and video to common and public areas on campus.
- Providing TV services to students in on-campus accommodation. This is of particular relevance with many new student accommodation blocks being wired to provide internet access, but not being wired with satellite or aerial feeds to rooms.

Hospitality

- Deliver TV, radio and video around hospitality venues such as stadiums and hotels; includes delivery to patient bedsides in hospitals.
- Provide digital signage solutions that combine advertising and hotel service information with live TV or video on demand.



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