

Hot-swap with redundant capabilities



Welcome to the revolution in
building IPTV

Product Family Overview

When performance, reliability and redundancy is an exacting prerequisite to an IPTV system, the Exterity prodaptor is the only solution.

Designed to give superior performance, the prodaptor is a durable system that benefits from many advanced developments including a variety of hot-swap prodaptor modules to accommodate DVB-S/T and MPEG Encoding, while a redundant power supply ensures uninterrupted operation of the Prodaptor chassis, even if a single power supply module fails.

Additionally, the prodaptor chassis is equipped with hot-swap fans allowing on-site replacement of this vital component, ensuring operational efficiency and minimising the risk of service interruption.

Installing a prodaptor chassis provides a future-proofed solution that enables easy expansion of your IPTV system at a later date. Inserting additional prodaptor modules allows your IPTV system to grow with the needs of your organisation.

Applications of the prodaptor chassis

- **Corporate:** When the supply of live TV and audio to an organisation is vital, the reliability and redundancy of the Exterity prodaptor proves to be a critical addition to your IPTV system.
- **Education:** Perfect for colleges and universities where the reliability of video teaching resources is essential. Large schools can also benefit from this robust solution, while smaller schools can invest in the future and choose to buy additional modules as their needs increase.
- **Hospitality:** Distribute live TV and audio feeds around a sports complex or stadium and benefit from the built in redundant features of the Exterity prodaptor.
- **Broadcast:** Provide live studio feeds for editorial review with the high-end reliability required in a modern broadcast organisation.

General Benefits

- **Redundancy** of the prodaptor chassis allows a more reliable IPTV solution as there is no single point of failure on the chassis.
- **Scalability** of the prodaptor chassis allows installation now and the ability to add additional prodaptor modules later as your IPTV requirements change over time.



Key Features

- Hot-swap allows modules to be removed and replaced without powering down the whole unit
- Passive backplane for higher reliability
- Multiple PCB module slots potentially providing a 200 plus channel output
- Hot swap fan modules to ensure robust cooling
- No single point of failure within the unit
- Up to three power slots providing 2+1 or 1+1 redundancy
- Individually failing modules do not prevent working modules from broadcasting feeds to the network

prodaptor 10

The prodaptor 10 comprises ten fully customisable PCB slots that can be mounted with a variety of prodaptor modules, equipping any organisation with a strong IPTV solution. These modules are hot-swap capable allowing network managers to replace, or add modules without powering down the entire unit.

Key Specifications

- 10 customisable PCB slots
- 5 hot-swap fan modules
- Passive backplane
- Redundant power supply (2+1 or 1+1)
- No single point of chassis failure



Prodaptor 10 system architecture uses a passive backplane. This provides end-user organisations a robust and reliable live TV and recorded video distribution system. When

customers and staff require the latest information from a variety of sources the impact on the organisation from failing to meet these obligations can be immense. The Exterity prodaptor 10 offers the most reliable system to ensure maximum performance and minimal system downtime.

Benefits for Corporates

- The most redundant Exterity IPTV system for providing external information to key decision makers and stakeholders within an organisation
- Reduce unnecessary work for IT support staff as the prodaptor 10 increases the reliability of an organisation's IPTV system

Benefits for Hospitality

- Reduce calls to hotel reception as the improvements offered by the prodaptor 10 increase system reliability
- By minimising downtime required for system maintenance, increase your customer loyalty by improving the overall guest experience

Benefits for Broadcasters

- ASI modules enable integration of the prodaptor 10 into broadcast quality head-end equipment
- Install backup inputs of critical channels allowing alternative options in the event of difficulties in one prodaptor module

Benefits for Education

- Install additional prodaptor modules to the prodaptor 10 system as your needs develop
- With the necessary prodaptor modules, the prodaptor 10 can be used to broadcast live teaching to overspill lecture theatres, with built in redundancy to ensure problems in the IPTV system will not affect all live teaching

A prodaptor chassis can be loaded with up to 10 of the following hot-swap prodaptor modules. They can be mounted in any combination required to achieve the desired IPTV system, even integrating SD and HD variants into the same chassis.



TVgateway Modules

DVB-S TVgateway

- Dual DVB inputs
- Receive non-encrypted satellite channels
- F-type female connector

DVB-S and DVB-S2 with CAM Module

- Single DVB input
- Receive encrypted satellite channels
- Works with various 3rd party decoder card readers

DVB-T TVgateway

- Dual DVB inputs
- Receive non-encrypted terrestrial channels
- 75 ohm IEC aerial connector

ASI TVgateway

- Single ASI connector
- 35 Mbps throughput
- Integrates with broadcast quality headend equipment

Encoder Modules

PRO Encoder

- Encodes video inputs into MPEG-2 and MPEG-4 formats
- Single channel input
- Balanced, unbalanced and AES digital audio

SDI Encoder

- Single SDI connector
- Encodes broadcast serial digital input
- SDI with or without embedded audio

HD Encoder Module

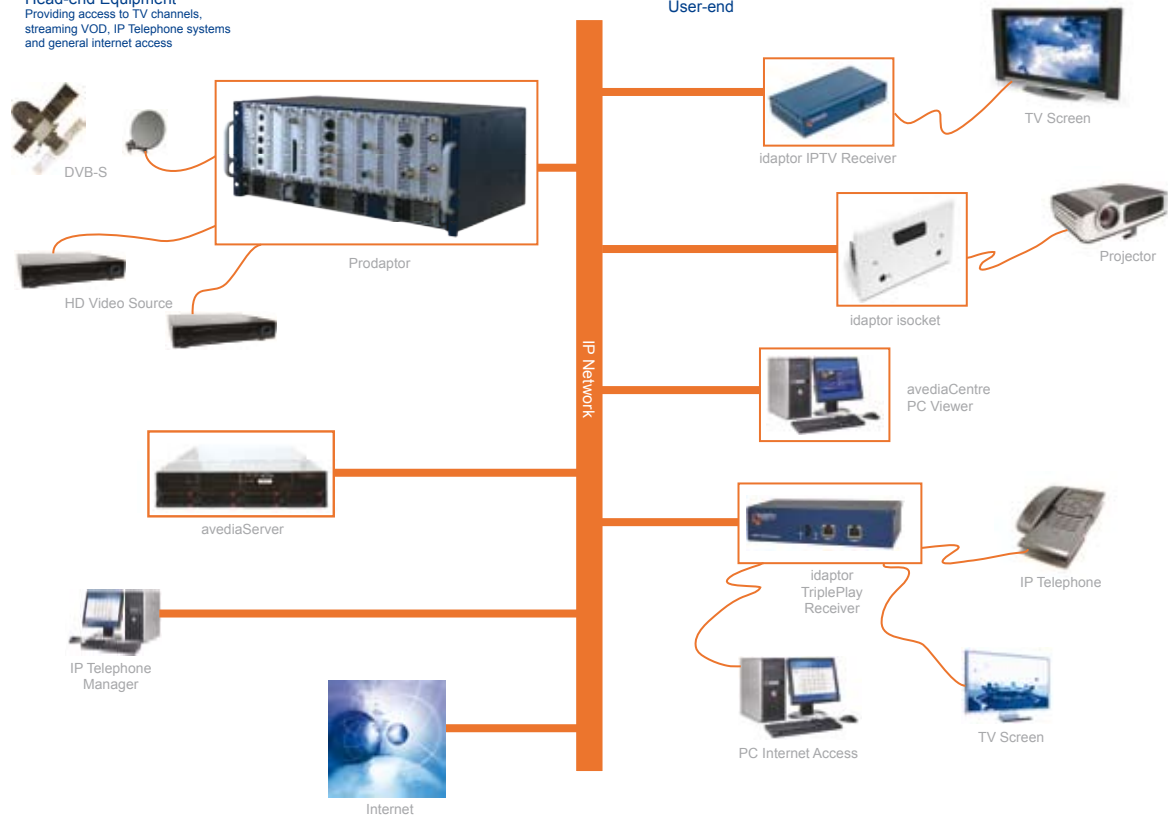
HD PRO Encoder

- Single Channel YCbCr Input
- H.264/AVC High Profile Level 4.0
- Balanced, unbalanced and AES digital audio

More detailed information on the capabilities of each prodaptor module can be found in the individual Exterity TVgateway, MPEG Encoder or HD Encoder datasheets.

The Exterity Network

Head-end Equipment
Providing access to TV channels, streaming VOD, IP Telephone systems and general internet access



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.

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.
- TriplePlay Receiver allows users access to IPTV, VoIP and Internet access from the same set top box.

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.

klicktv
partners with

Klicktv
The London TV Centre
Upper ground
London
SE1 9LT

Exterity
Ridge Way
Hillend Industrial Park
Dalgety Bay
Dunfermline, KY11 9JD
United Kingdom.

t: 0845 2266475
w: www.klicktv.co.uk
e: info@klicktv.co.uk

t: +44(0) 1383 828250
f: +44(0) 1383 824905
w: www.exterity.co.uk
e: info@exterity.co.uk

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