

FastCaster

MPEG2-TS over IP Network Adapter



FastCaster Network Adapters provide a cost effective and highly reliable solution for transporting digital video content over IP networks (MPEG2-TS over IP also called DVB over IP or ASI over IP)

To date, the never-ending IP networks interconnection growth made it possible to send data from one part of the world to anywhere without any special infrastructure cost. This is where operators have OPEX savings to do by moving to all-IP transfer solutions.

FastCaster enable emission or reception of MPEG2 Transport Stream (MPEG2-TS) over IP networks without the need of expensive distribution solutions. Equipped with 2 redundant ASI inputs and 2 mirrored ASI outputs, a FastCaster network adapter can be set in IP to TS or TS to IP conversion direction.

Applications

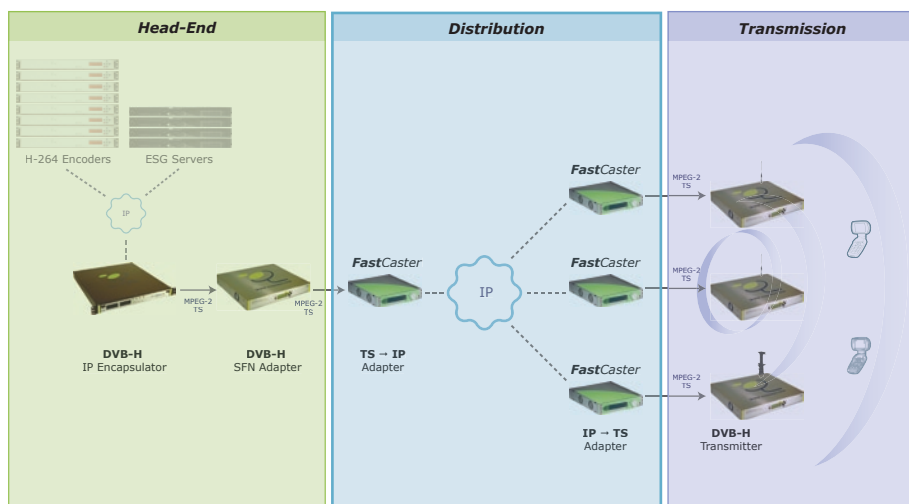
- Mobile TV or DTTV contribution or distribution
- Head-End interconnection
- National to regional content distribution
- Sites interconnection

Benefits

- Operation and network costs optimization
- Operates in both ASI to IP or IP to ASI directions
- SFN Networks preservation (SFN over IP)
 - External 10 MHz clock input
 - Internal 10 MHz clock & drift correction
- Configurable buffer size (100 to 900 ms)
- Low PCR jitter
- Low latency
- Protection against network jitter
- Built-in redundancy
- Built-in SNMP (gets, sets, traps)
- Smooth integration in supervision system

Characteristics

- 2x mirrored ASI outputs
- 2x redundant ASI inputs (or loopthrough)
- 50 Mbps maximum throughput
- 2x Fast Ethernet ports (Control/Data)
- Uni- or multicast support
- IGMP support
- RTP / UDP support
- Forward Error Correction (CoP#3)
- Full SNMP v2 Support
- Embedded HTTP server
- Real-time monitoring
- Fault relay alarm



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Video Interface

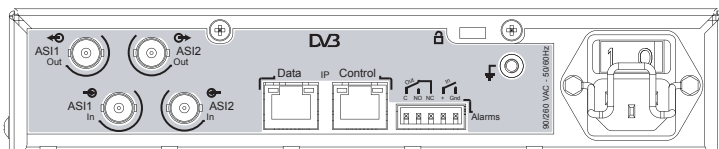
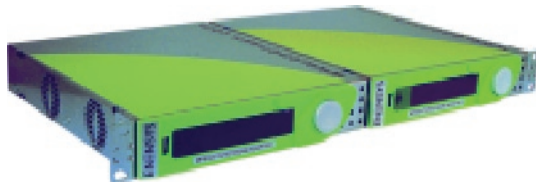
Format	DVB-ASI
Number of ports	2x mirrored outputs 2x redundant inputs
Connectors	BNC (75Ω)

Processing

Throughput	50 Mbps max.
Assets	Forward Error Correction (Pro MPEG Forum CoP3), High protection against Jitter and delay Regulation for SFN networks (optional external 10 MHz)
Settings	from 1 to 7 TS packets per IP packet, TTL, QoS

Control & management

Type	10/100bT
Web	Rich client interface with live statistics & monitoring
Front Panel	Key settings
Supervision	Full SNMP v2 support Gets, sets and configurable traps for NMS supervision



Network interface

Type	10/100bT
Number of ports	2 (separate data and control)
Connectors	RJ45
Protocols	UDP, RTP, IGMP, ARP, SNMP v2

Physical

Height	43 mm / 1.7 in
Width	220 mm / 8.7 in
Depth	263 mm / 10.4 in
Weight	2 kg / 4.4 lb
Format	1 RU, 1/2 width 19"
Power supply	90-240VAC
Power consumption	8 W

Environment

Operating temperature	0 to 65°C / 0 to 149 °F
Storage temperature	-20°C to 70°C / -4°F to 158°F
Humidity	0 to 95%, non condensing



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