

IPTV set-top box which delivers advanced network video decoding capabilities across a wide range of resolutions up to 1080p60 for superb image quality. Its low power consumption makes it an economical choice for enterprise video display and digital signage systems.



Video Output

- HDMI v1.4b (with HDCP):
 - 1080p, 1080i, 720p (50Hz/59.94Hz/60Hz)
 - 576p, 576i (50Hz)
 - 480p, 480i (59.94Hz/60Hz)

Audio Output

- HDMI: 2 or 6 Channel PCM or Bitstream
- TOS: 2 Channel PCM or Bitstream

Video Decoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496/10)
- MPEG-2 (ISO/IEC 13818-2)
- Resolutions:
 - 1080i, 1080p @ 50Hz, 59.94Hz or 60Hz
 - 576i, 576p, 720p
 - 480i, 480p
 - 240p, 360p

Audio Decoding

- MPEG-1 Layer II (ISO/IEC 11172-3)
- AC3/EAC3
- AAC/HE-AAC
- Downmixes multi-channel audio to stereo
- Dolby Digital and Dolby Digital Plus pass through

Streaming

- MPEG 2 Transport Stream (ISO/IEC 13818-1)
- UDP, RTP
- HLS (6Mbps limit for HLS)
- IP multicast, IP unicast
- IGMPv2/v3
- Video On-Demand: HLS, RTSP, HTTP

USB 2.0 Port

- Can be used for external storage and Human Interface Devices
- USB hot plug enables auto-mounting of USB devices

Content Protection

- Decryption of HDCPv2.2 protected content
- Decryption of Samsung LYNK™ DRM protected content (live streams) from an AvediaStream g4415-1k TVgateway and pre-encrypted VoD content hosted on an AvediaServer. Samsung LYNK DRM Client licence required.
- Decryption of ARRIS SECUREMEDIA® DRM protected content (live streams and VoD) from an AvediaStream g4415-sm TVgateway. Encryptonite ONE™ Server and client licence required.

Channel Management

- Automatic channel discovery from all Exterity head end equipment
- SAP/SDP announcements
- Channel access control
- XML channel lists
- Static channels
- Hidden channels
- Channel redundancy
- Channel failover to channel or web page

Infra-red/Control Options

- Built-in IR receiver
- 3.5mm jack for IR extender or tethered remote control
- Third party IR & USB remote controls supported
- TV control via Serial RS232 or HDMI CEC

System

- CPU: ST40-300 650MHz
- RAM: 512MB
- Flash: 256MB (for firmware and configuration)
- OS: STLinux 2.4

Built-in User Interface

- Channel selection menu
- Volume control
- Audio Language control
- DVB Subtitles (ETSI EN 300 743)
- Closed captions (CEA-608 captions embedded in CEA-708 data)
- Teletext subtitles

Integrated Web Browser

- Ekioh TV Browser for digital signage and integration with third party middleware
 - HTML 5
 - CSS 3 & DOM 3
 - Image formats: PNG, JPEG

Management

- Fully integrated with all Exterity management tools
- HTTP/HTTPS web interface; recommended browser: Chrome®
- Simple Certificate Enrollment Protocol (SCEP) for HTTPS
- SNMP
- Console access via SSH and Serial RS232 Admin Port
- Terminal Control Interface (TCI) for control system integration
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP
- Secure Mode option to lock down media player access

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet
- IEEE 802.3af POE PD
- IEEE 802.1X network authentication
- Simple Certificate Enrollment Protocol (SCEP) for 802.1X

Additional Features

- Accelerated channel change mode (sub 500ms (transcoder required))
- Video wall capability
- Unit-to-unit sync capability
- Low end-to-end latency (sub 400ms end-to-end latency (specific settings required. Contact Exterity Support for more information))

Options

- TV and under-desk mounting brackets
- IR and wired remote controls and extenders
- Power supplies for non-POE environments
- ArtioSign® Display digital signage licence

Protocols

IP (RFC791), UDP (RFC768), TCP (RFC793), ARP (RFC826), DNS (RFC1035), DHCP (RFC2131), ICMP (RFC0792), IGMP v3 (RFC 3376), TFTP (RFC1350), HTTP (RFC2616), Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566), RTP (RFC3550), RTSP (RFC2362), SNMPv1/v2c (RFC1157/RFC1901), HLS, HTTPS (RFC2818), 802.1X (RFC3580)

Environment

- Operating temperature: 0 ...+40°C / +32 ... +122°F
- Storage temperature: -20 ...+70°C / -4 ... +158°F
- Operating Relative Humidity: 5 – 95% (non-condensing)

Regulatory

CE, FCC, UL, CSA, ACMA compliant

- **CE**
 - EN55022:2010
 - EN55024:2010
 - EN 61000-3-3:2008
 - IEC 60950-1:2005 (Ed. 2.0) + Am 1:2009 +Am 2:2013
 - EN60950-1 2006 + A11:2009, A1:2010, A12:2011, A2:2013
- **FCC/UL/CSA**
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2003
 - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014
- **ACMA**
 - EN55022:2010 + AC2011
 - AS/NZS 60335.1:2011 +A1

Dimensions

- 35mm (H) x 140mm (L) x 95mm (D)

Weight

- 0.4 kg

Power

- DC Jack (24V): 5W typical, 8W maximum
- POE IEEE 802.3af PD (48V): 5W typical, 8W maximum

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 126295 hours (14.4 years)