exterity ®

AvediaStream o7520 Origin Server

The AvediaStream Origin Server greatly increases network video system flexibility by delivering video to a very wide range of clients, both in and outside the wired LAN.

Interfaces

- Four 802.3 100/1000 Ethernet (RJ-45) sockets plus IPMI
- Serial, VGA, 4 x USB

Inbound Streams

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
  - RTP
  - UDP
  - IP unicast
  - IP multicast via IGMP
- RTMP (FLV container)
- RTSP
- HLS (HTTP Live Streaming)

Output Streams

- Streaming up to 4 Gbps/2000 clients
- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
  - RTP
  - UDP
  - IP unicast
  - IP multicast
  - IGMP Join Group for enhanced switch compatibility
- RTMP (FLV container)
- HLS (HTTP Live Streaming) single streams
- HLS Adaptive Bitrate (ABR) multi-streams

Outbound Channel Management

- Channel announcement via SAP/SDP
- Multicast/unicast address selection (automatic or manual)
- Configurable name, number and group membership

High Availability

- Two Origin Servers can be configured in a cluster to provide high availability of live streams using a failover mechanism

Management

- Flexible network port configuration enables streaming and administration interfaces to be on separate networks
- Fully integrated with Exterity management tools
- Network administration via SSH and SNMP
- HTTP web interface (supported browsers: Firefox, Internet Explorer and Chrome). Check with support@exterity.com for version information
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade & configuration backup/restore via TFTP
- Access via VGA monitor and USB keyboard/mouse

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- 4 x IEEE 802.3u 100/1000Mbps MDIX Ethernet interface
- Ethernet link aggregation
- Ethernet link redundancy
- Firewall enables separate streaming and administration interfaces

System

- Based on CentOS 7

Environment

- Operating Temperature Range: 10° to 35°C (50° to 95°F)
- Non-operating Temperature Range: -40° to 70°C (-40° to 158°F)
- Operating Humidity Range: 8% to 90%
- Non-operating Humidity Range: 5% to 95%

AvediaStream o7520

Physical Format

- Compact 1U rack-mounted standard 19" chassis
- Dimensions: W: 426mm x D: 370 x H: 43mm (chassis only)
- Weight: 5.65kg

Protocols

IP (RFC 791), UDP (RFC 768), TCP (RFC 793), ARP (RFC 826), DNS, (RFC 1035), DHCP (RFC 2131), ICMP (RFC 792), IGMP (RFC 3376), TFTP (RFC 1350), HTTP (RFC 2616), Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c - RFC 1901)

Regulatory

- **CE:**
  - IEC 60950-1:2005 (Ed. 2.0) + Am 1:2009 +Am 2:2013
  - EN60950-1 2006 + A11:2009, A1:2010, A12:2011, A2:2013
  - EN55032:2012 + corrigenda Aug 2012 & Dec 2012
  - EN55024:2010 + A1:2015
  - EN 61000-3-2:2014
  - EN 61000-3-3:2013
- **UL/CSA**
  - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. Oct 14, 2014
- **FCC:**
  - 47CFR Part 15, Sub Part B
  - ANSI C63-4:2014
- **ACMA**
  - AS/NZS 60950.1:2015

Power

- Internal AC input power supply: 100-240V 60-50Hz 2.6-1.1A
- Power consumption: Typical 70W, 120W max,

Power Cords

- avstr-o7520-au = Australia and New Zealand
- avstr-o7520-uk = UK
- avstr-o7520-eu = Europe
- avstr-o7520-sa = South Africa
- avstr-o7520-us = North America

Exterity Headquarters

t: +44 (0) 1383 828 250   w:w.exterity.com   e: info@exterity.com

CERTIFIED QUALITY MANAGEMENT SYSTEM