



SX-1000A StatmuxIP Controller

Compact Multiplexer for StatmuxIP Applications

Product Overview

The SX-1000A is a multiplexer platform designed to support the StatmuxIP statistical multiplexing application. This powerful closed loop solution is implemented with a modern LAN/WAN signaling protocol to support both localized and distributed applications with the relevant HD and SD Motorola AVC encoders.

Statistical multiplexing is a proven technique that is usually applicable for multi program video delivery over cable or satellite. In this closed loop implementation the multiplexer directly controls the encoders in the pool to maximize efficiency.

Control and encoded streams are delivered over the network infrastructure to reduce infrastructure cost as well as enabling remote encoders to participate in the statistical multiplex.

An AVC statistical multiplex will offer lower bit rates per service when compared to an MPEG-2 system. Lower average bit rates per service will offer more encoders per pool and hence result in greater efficiency through better statistical averaging. The StatmuxIP signaling infrastructure also incorporates ProMPEG forward error correction and other techniques to ensure resilience to networking anomalies. This system is already on air in a distributed configuration with a major operator.

Highlights Include:

- MPEG-4 AVC statistical multiplexing
- Closed loop control for maximum efficiency
- WAN messaging for distributed StatmuxIP
- FEC protected messaging for network resilience
- Supports asynchronous encoders
- Four Ethernet ports
- ASI output option
- Low power, 1RU chassis
- SNMPv2 interface with published MIB
- Web browser control interface

Specifications

STATMUXIP FEATURES

Closed loop
Lookahead rate allocation
Distributed statmux over WAN
Up to 16 remote sub groups
Up to 20 encoders per pool
Support for mixed HD/SD pools
IGMPv3 messaging
Synchronized using NTP
Network tolerant – round trip messaging of up to 600 mS
Resilient to missing control messages

COMPRESSED STREAM

MPEG-2 Transport Stream over UDP/IP	
Ethernet:	3 Gigabit, 1 10/100, RJ-45
IP:	Unicast or Multicast
ASI Output:	2 (Optional), BNC, female 100 Mbps output rate

CONTROL AND STATUS

Type:	Browser interface SNMPv2with published MIB Linux operating system
Redundancy:	Designed for 1+1

PHYSICAL

Width:	18.9 in (48cm)
Depth:	15.5 in (39.4cm)
Height:	1.75 in, one RU
Weight:	14 lb
Packaged Weight:	20 lb
Power:	115-230V (continuous), 47-63Hz
Power Consumption:	Less than 100W
Cooling Air:	Front to rear
Temperature:	to 40 °C

OTHER

Limited Warranty:	One year
Compliance:	FCC, CE, UL, RoHS and TUV

ORDERING

SX-1000A	ASI output
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For more information regarding any of these features contact your Motorola sales representative.

Features and functions subject to change without notice.



MOTOROLA

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