



SX-1000A

StatmuxIP Controller



Compact Multiplexer for StatmuxIP Applications

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

For more information regarding any of these features contact your Motorola sales representative.

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.

SPECIFICATION SHEET

SX-1000A

TECHNICAL SPECIFICATIONS		Control and Status		
StatmuxIP Features	Closed loop	Type:	Browser interface SNMPv2 with published MIB Linux operating system	
	Lookahead rate allocation	Redundancy:	Designed for 1+1	
	Distributed statmux over WAN			
	Up to 16 remote sub groups	Physical	Width:	18.9" (48cm)
	Up to 40 encoders per pool		Depth:	15.5" (39.4cm)
	Support for mixed HD/SD pools		Height:	1RU, 1.75" (5cm)
	IGMPv3 messaging		Weight:	14 lb
	Synchronized using NTP		Packaged Weight:	20 lb
Network tolerant – round trip messaging of up to 600 mS	Power:		115-230V (continuous), 47-63Hz	
Resilient to missing control messages	Power Consumption:	Less than 100W		
Compressed Stream Output	MPEG-2 Transport Stream over UDP/IP	Cooling Air:	Front to rear	
		Temperature:	To 40C	
		Other		
		Limited Warranty:	One year	
Ethernet:	3 Gigabit, 1 10/100, RJ-45	Compliance:	FCC, CE, UL, RoHS and TUV	
IP:	Unicast or Multicast	Ordering	SX-1000A	ASI output
ASI Output:	2 (Optional), BNC, female			
	100 Mbps output rate			



MOTOROLA

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