DVB 4 to 10 Inputs
Broadcast ASI Multiplexer

General:
The Streamtel ASI-MX is a compact (1RU) DVB Statistical Multiplexer/Re-multiplexer and transport stream processor, rich in capabilities and options. It is highly interoperable with multi-vendor Head-end equipment and Conditional Access Systems. Having 6 to 10 ASI inputs it provides the highest 1RU re-multiplexing port density in the market.

Besides re-muxing, the unit also has powerful TS processing capabilities such as error monitoring, PID filtering and re-mapping, bit rate detection of incoming streams, monitoring of incoming PSI/SI, dynamic SI processing and others. The unit connects directly to a local LAN via TCP/IP connection and is controlled via its built-in user interface or SNMP allowing users to select what input programs and services should be passed to the output. It also provides Operators with a cost effective solution for MPEG-2 local programs insertions by using its integrated Near Seamless Splicing.

The ASI-MX10 D is also equipped with an additional TCP-IP Streaming port so the same unit can also drive DVB Over IP multicast-unicast applications. The ASI-MX is the perfect companion in all your DVB Broadcast and Professional applications providing the best multiplexing mechanism in multi-encoder environment with low power consumption and maintenance free operation.

Applications
- Fixed Distribution/Contribution
- Digital Turnaround / Head-end applications
- Satellite, Cable, DVB-T, MMDS
- Multi channel mobile contribution
- Video Over IP GateWay with Multicast-Unicast features
- Conditional Access (symulcrypt)
- Transport stream processing
- Integrated or stand-alone DVB scrambler (Simulcrypt or BISS)
- PSI/SI tables injector
- Video Distribution over Telco

Features and Options
- DVB Multiplexing of up to 10 MPEG-2 Transport Streams (MPTS/STPS)
- Statistical Multiplexing Support & Advanced Re-multiplexing (Add/Drop)
- Up to 120 Mbps input/output bitrates
- PID re-mapping and Transport Stream Processing
- PSI/SI Auto-generation and processing
- PSI/SI Generator Support for DVB Table editing and EPG insertion
- Open Systems DVB Simulcrypt Interface (optional)
- Custom Built-in DVB scrambler (optional)
- Custom Stand-Alone DVB Scrambler (optional)
- Multi-channel BISS Scrambling (optional)
- IP Encapsulator Interface / DVB over IP GateWay (ASI-MX D version)
- Ethernet interface for communication with management system
- Modular, scalable and configurable
- Dynamic input switching for redundant applications

1Rack Unit DVB Multiplexer
Statistical Multiplexing
Advanced Re-multiplexing
6 to 10 ASI input
PID Filtering
PID Re-Mapping
PSI/SI Management
Multiple Units cascading
Multiple ASI out
IP Streaming GateWay out
(ASI-MX D version)

Symulcrypt C.A.
Conditional Access Port
(ASI-MX D version)

Built-In SNMP
and WEB interface

Hot/Backup operation

ASI/G703/ATM/ other out

Best Price on the Market
### Connector Panel

Rear panel may change depending from the selected configuration.

| Inputs | DVB-ASI: 6 to 10 inputs  
• Interface: Copper  
• TS bit rate: Up to 120 Mbps | BitRate Transcoder Interface (optional) |
| --- | --- | --- |
| Output | Variable Output Rate  
DVB-ASI: Dual output  
• Interface: Copper  
• TS bit rate (unscrambled): Up to 120 Mbps  
• TS bit rate (Scrambled): Up to 78 Mbps | Telecom HDB3 (optional)  
• Interface: G703 HDB3 BNC  
• Unframed PDH Data rates: E2 - E3 G703  
• TS packet format: 188/204 bytes  
• FEC (optional): DVB-C FEC  
Telecom B3ZS - ATM (optional)  
• Interface: ATM AAL-1 B3ZS BNC  
• Unframed PDH Data rates: DS3, E3 G703 |
| Processing | Re-Multiplexing (all input)  
• Service level  
• Component level  
Statistical Multiplexing | TS Processing  
• PID Remapping  
• PCR Restamping  
• PSI/SI DVB Table Processing and Injection  
• PSI/SI Generator Support for DVB Table editing and EPG insertion |
| Conditional Access | Tiesseci Custom Smart Card C.A. system  
see MX-CA datasheet  
DVB-Scrambling  
Multi-channel BISS scrambling | Simulcrypt  
• Interface: 100BaseT, ASI  
• CAS: Irdeto®, Viaccess®, Nagravision®, Betacrypt®, MediaGuard®, VideoGuard®, Conax®, Chinacrypt®, other... |
| Control and Monitoring | Local  
• Extensive Front Panel Control  
• Local Terminal and RS-232  
• Configuration Files | Remote  
• Ethernet TCP/IP (optional)  
• Software upgrade  
• Telnet access via Ethernet |
| Physical and Power Dimensions | 1RU (19” rack)  
4.4 X 48.3 X 53cm  
1.75’ X 19” X 21”  
Weight: 7Kg | Power  
• Voltage 90-260 V AC, 50/60Hz  
• 48VDC (optional)  
• Power consumption: 70W Max |
| Environment | Temperature  
• Operating 0-50 C  
• Storage : -40-70 C | Humidity: 85% non-condensing  
Vibration and shock: in accordance with MIL-STD-810D |
| Compliance | CE marked in accordance with EN 50082-1and EN 55022, Class B, FCC | Safety  
in accordance with EN 60950 |

### Ordering Information

| ASI-MX6 | 4 ASI in / 2 ASI out DVB statistical multiplexer |
| ASI-MX8 | 8 ASI in / 2 ASI out DVB statistical multiplexer |
| ASI-MX10 | 10 ASI in / 2 ASI out DVB statistical multiplexer |
| ASI-MX10-D | 10 ASI in / 2 ASI out DVB statistical multiplexer + IP Streaming Out |
| -E3 | Adds one E3 34Mbit/s G.703 HDB3 BNC output |
| -E2 | Adds one E2 G.703 HDB3 BNC output |
| -DS3 | Adds one DS3 ATM AAL-1 B23S BNC output |
| -Simulcrypt | Adds symulcrypt Conditional Access control port and features |
| -Custom CA | Adds Tiesseci Custom Conditional Access control port and features |
| -BTI | Adds Bitrate Transcoder Interface |
| -48V | Adds 48 volt power input |
4 Channels ASI-MX4 Multiplexer application example

ASI Sources

optional Conditional Access Control System

Optional Conditional Access PAY TV is available as:
> Tiessci Symulcrypt Custom C.A
( secure and cost-effective)
> Or Standard Simulcrypt Port
Irdeto®, Viaccess®, Nagravision®, Betacrypt®,
MediaGuard®, VideoGuard®, Conax®, Chinacrypt®,
other...

Redundant Multiplexer Example - Cost-Effective and 100% Safe

100% Redundant Multiplex System

Two parallel ASI-MX4
with change-over on outputs

GPI ALARMS
## Ordering Information

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StreamTel Corporation - Leading Broadcast and Telecom Technologies

Viale Europa 13 - Varese - Italy EU 21100
Tel +39 - (0)332 - 232.953  Fax +39 - (0)332 - 288.389  info@streamtel.com  www.streamtel.com

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