# MA5300D
# MPEG Adapter

The MA5300D MPEG Adapter is an ATM concentrator/de-concentrator that enables transmission and reception of video over PDH, SDH and SONET networks.

The MA5300D MPEG Adapter is a high quality MPEG-2 to ATM bridge offering simplified system architecture. Based on open standards, the MA5300D has been designed to meet the demanding requirements of post-production distribution applications, where multiple transport streams are concentrated or de-concentrated through a single telecom connection over PDH/SDH/SONET networks.

## BUSINESS BENEFITS

**Scalable and Efficient**

- Expands with business needs

**Flexible**

- Highly configurable for cost-effective solutions to suit your systems

**Quality**

- Robust clock recovery and PSU redundancy

**Field Proven**

- Hundreds in live operation around the world

**IP over ATM**

- In-band control and monitoring

**SVC Support**

- Dial on-demand connectivity

## BASE UNIT FEATURES

**MA5300D Base Unit (M2/ATM53/MA5300D)**

A high degree of flexibility enables you to configure a combination of concentrating and de-concentrating functionality that exactly suits your needs, all in a compact 2RU chassis.

- Modular architecture
- Dual PSU - gives automatic redundancy of PSU if a failure occurs
- Open standards - based on ITU-T.J82 and ATM Forum Specifications
- Dynamic selection of adaptation layers - AAL-1 +FEC or AAL-5
- PVC & SVC operation - point-to-point and point-to-multi-point, PVC and SVC
- SNMP Traps & RS-232 port - assists in fault finding
- Supports standard and enterprise specific MIB's - interfaces to most monitoring systems
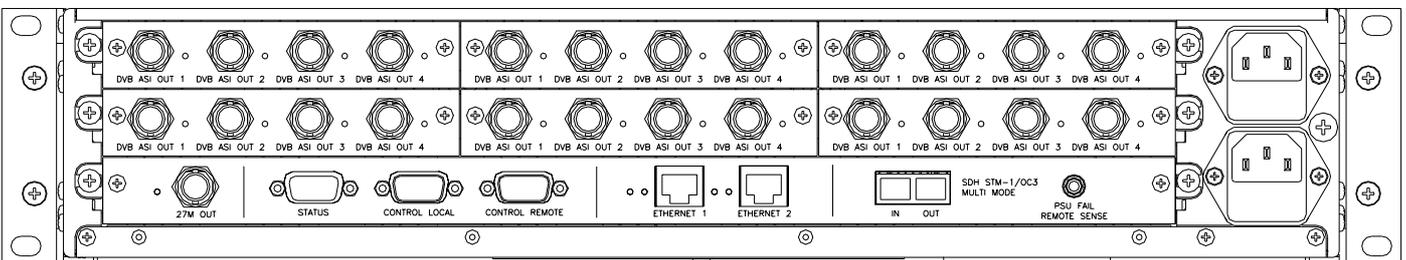
## OPTIONS

**Input & Output Modules**

- Four ASI Input Module concentrator card (M2/ATM53/4ASI-IN)

- Four ASI Output Module is a de-concentrator (M2/ATM53/4ASI-OUT)

**Network Interface Modules**

- STM-1/SDH/SONET Multi-Mode Fiber Module (M2/ATM53/155SDH-MM)

- STM-1/SDH/SONET Single-Mode Fiber Module (M2/ATM53/155SDH-SM)

- STM-1/SDH/SONET Electrical-Mode BNC Module (M2/ATM53/155SDH-E)

- DS3/PDH G703 45 Mbps BNC Connector Module (M2/ATM53/DS3)

- E3/PDH G703 34 Mbps BNC Connector Module (M2/ATM53/E3)

## SAMPLE CONFIGURATION



## SPECIFICATIONS

### Inputs and Outputs

| |
|---|
| ASI input option module (concentrator) |
| DVB ASI Input (Copper) BNC |
| ASI output option module (De-concentrator) |
| DVB ASI Output (Copper) BNC |
| Full duplex ATM input/output dependent upon physical interface |

### Physical Interfaces

| |
|---|
| STM-1/SDH, & SONET OC3 multi-mode & single mode, STM-1 Electrical SC connector type |
| DS3/PDH, G.703 BNC Connector |
| E3/PDH, G.703 BNC Connector |
| Alarm relay contact, 9 way D type |

### Features

| |
|---|
| Modular architecture with up to six option modules |
| Supports SNMP Simple Network Management Protocol |
| Dynamic selection of adaptation layer, AAL-1 + FEC or AAL-5 on each channel |
| Supports FEC/Interleaving in AAL-1 mode |
| Alarm/Fail relays RS-232 user diagnostics |
| IP over ATM for both PVC and SVC |
| Dual PSU giving redundancy if failure occurs |

### Control

| |
|---|
| Local control through RS-232 port |
| Remote control (via Telnet, SNMP, nCompass Device level control, CORTEX) through 10BaseT Ethernet port |

### Physical and Power

2RU unit, 19" rack mounting

**Dimensions (W x D x H)**
440 x 505 x 89mm  (17.5 x 20 x 3.5 inches)

**Input Voltage**
110 – 120 VAC / 220 – 240 VAC

**Approximate Weight**
10kg

### Environmental Conditions

**Operating Temperature**
0°C to 45°C (32°F to 113°F) ambient for equipment

**Relative Humidity**
0 - 90% (non-condensing)