

Product Features

- *DVB-ASI-to-IP and IP-to-DVB-ASI modes of operation*
- *Forward Error Correction support according to Pro-MPEG Forum CoP #3 / SMPTE 2022*
- *SFN Network preservation (SFN over IP)*
- *Internal or external 10 MHz reference clock and drift correction*
- *Low induced PCR jitter*
- *Low processing latency*
- *Protection against IP network jitter*
- *Configurable input buffer size for IP packets*
- *Front Panel, Web GUI, Telnet, CLI and SNMP support*
- *Remote upgrade support*



Description and Application

Overview

In today's broadcast environment, IP networks have become a very important part in the distribution of digital video streams.

The DVB-ASI-to-IP Bridge is designed to achieve the highest performance, while satisfying all requirements of MPEG transport stream distribution in SFN networks. It provides DVB-ASI-to-IP or IP-to-DVB-ASI conversion and can be used to transfer a MPEG transport stream through an IP network.

The unit supports full DVB-ASI bandwidth operation (up to 216 Mbps) on both Ethernet ports and simultaneous operation in both directions.

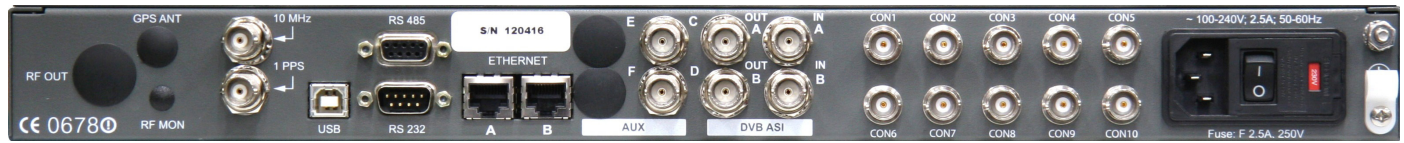
Different combinations of six to eight DVB-ASI ports and two Gigabit Ethernet ports are possible. Data and Control IP streams can be applied to either Ethernet port.

Characteristics

- 6x DVB-ASI inputs
- 8x DVB-ASI outputs
- 2x Gigabit Ethernet ports (Control and/or Data)
- Software selectable configurations
- Throughput limited by the maximum DVB-ASI bandwidth of 216 Mbps
- Each Ethernet port can support the combined bandwidth of 8 DVB-ASI ports
- Automatic input MPEG TS packet size detection (188/204 bytes)
- 1 to 7 MPEG TS packets per IP packet
- IP Packet loss and re-ordering recovery with Forward Error Correction according to Pro-MPEG Forum CoP #3 / SMPTE 2022
- High protection against Jitter and Delay
- Regulation for SFN networks
- Unicast or multicast support
- RTP / UDP support
- Full SNMP v2 support
- Embedded HTTP server
- Real-time monitoring
- Optional 10 MHz external reference

DVB-ASI-to-IP Bridge

Model: UNA 7000



Rear Panel

Product Specifications

Video Interface

DVB-ASI Input	6 Connectors: BNC (F) Impedance: 75 Ω
DVB-ASI Output	8 Connectors: BNC (F) Impedance: 75 Ω

Network Interface

Ethernet	Speed: 10/100/1000 Base-T 2 Connectors: RJ45 (data and control interchangeable) Protocol: Pro-MPEG CoP #3 / SMPTE 2022
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Reference Input

Clock Reference - 10 MHz	Connector: BNC (F) Frequency: 10 MHz Level: 0 dBm to 15 dBm Impedance: 50 Ω
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Control Interfaces

Front Panel	LCD display and cursor/ execute keys
Ethernet Interface	2 Connector: RJ45 Speed: 10/100/1000 Base-T
USB Interface	Connector: USB Type B
RS232 Interface	Connector: 9-pin SUB-D Male
RS485 Interface	Connector: 9-pin SUB-D Female
CLI (Command Line Interface)	Connector: USB (HyperTerminal) or Ethernet (HyperTerminal and Telnet)
Web GUI	Internet Explorer, Firefox, etc. Connector: Ethernet
SNMP Control Interface	Connector: Ethernet Note: MIBs are provided

Power Supply

Voltage	100 - 240 VAC
Frequency	50 - 60 Hz
Power Consumption	max. 45 VA
Harmonic Correction	EN61000-3-2

Environmental

Operating Temperature	0°C to +50°C (+32°F to +122°F)
Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Relative Humidity (operating/storage)	max. 95%
Cooling	Internal fans to assist natural convection

Mechanical

Size	1 U of 19" wide cabinet
Dimension (W x H x D)	48.3cm x 4.39cm x 42.7cm (19" x 1.73" x 16.8")
Weight	4.5 kg (10 lbs)
Transport and Storage	Vibration acc. to IEC Publ.68

ETSI Compliance

Essential Requirement R&TTE Directive 1995/5/EC	Standard / Specification
Safety	EN 60950-1: 2001, A11: 2004 First Edition
Health	Not applicable. No antenna.
EMC	EN 301 489-1 V1.8.1

CE Compliance

This equipment is CE Compliant.

