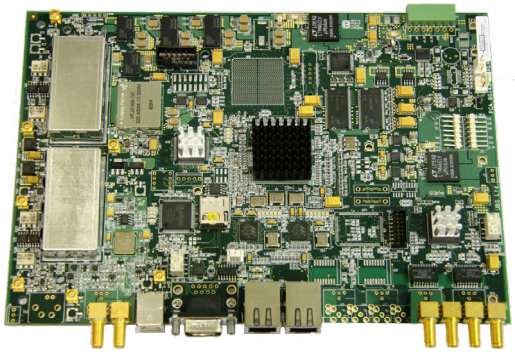
Unique Broadband Systems Ltd.

OEM DVB-ASI-to-IP Bridge

Model: DV-IP-ASI-1G

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*
- *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*
- *Web GUI, Telnet, CLI and SNMP support*
- *Remote upgrade support*
- *Available in both enclosed and board version*



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 OEM 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 though 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 two DVB-ASI ports and two Gigabit Ethernet ports are possible. Data and Control IP streams can be applied to either Ethernet port.

Characteristics

- 2x 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 two 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
- 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

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Product Specifications (specifications are subject to change without notice)

Video Interface

DVB-ASI Input	2 Connectors: SMA (F) Impedance: 50 Ω
DVB-ASI Output	2 Connectors: SMA (F) Impedance: 50 Ω

Network Interface

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

Control & Management

Ethernet	10/100/1000 Base-T
Web GUI	Live statistics and monitoring
Supervision	Full SNMP v2 support Gets, sets and configurable traps for NMS supervision
Front Panel	LCD display and cursor/ execute keys
Interactive CLI Commands	RS232 (DB9-M), USB

Power Supply

Voltage	12 Vdc: 6 Pin Header (Board) DC Jack, 2.1mm ID, 5.3mm OD (Enclosed)
Power Consumption	max. 27 VA

Mechanical

Board Dimensions (W x H x D)	234mm x 13mm x 163mm (9.2" x 0.5" x 6.4")
Board Weight	0.25kg (0.5 lbs.)
Enclosed Dimensions (W x H x D)	247mm x 30.5mm x 203mm (9.7" x 1.2" x 8.0")
Enclosed Weight	1 kg (2.2 lbs.)

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	Temperature controlled fan to assist natural convection (Enclosed only)

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