



IPE-3000



Overview

Logic Innovations' IPE-3000 is a solid-state, fully embedded IP Encapsulator. The IPE-3000 provides the necessary link between IP networks and broadband networks, enabling cost-effective point to multipoint content delivery. Logic Innovations' IPE-3000 receives IP packets from an Ethernet connection and encapsulates selected packets into an MPEG-2 transport stream per DVB or ATSC specifications. Once the IPE-3000 has encapsulated the data, it forwards the data packets based on the user-defined routing tables and performs Quality of Service (QoS) on a route-by-route basis. The output transport stream can then be forwarded to a multiplexer or directly to a modulator for the high-performance and cost-saving transmission of IP data over cable, satellite or terrestrial networks.

Key Features

License Based Performance Options

- Available in 5, 10, 20, 32, 73, 100 and 213 Mbps models
- Field upgradeable via a software license

Incorporated Quality of Service (QoS) Function

- Assigns an individual bandwidth limit (CIR) and guarantee to each route
- Allows the sharing of unused bandwidth between active routes
- Functions similar to frame relay QoS models
- Compatible with external QoS systems by allowing users to disable internal QoS

Reliable in Any Environment

- Provides ultra-high reliability with a diskless embedded operating system
- Maintains an easy-to-operate graphical user interface
- Reduces potential interruptions with an all solid-state construction
- Performs in high-vibration environments with its ruggedized chassis

Maximizes Bandwidth Utilization with *FlowControl* Feature

- Controls data flow from content servers for opportunistic data insertion
- Reports buffer status to enable real-time adjustments in the transmit bit rate from the server
- Enhances bandwidth usage
- Prevents loss data due to buffer overruns

SMPTE 325M Support

- Provides a feedback path to support opportunistic data insertion
- Allows data to be output at varied bit rates filling available space in an existing MPEG-2 stream
- Interfaces directly to Logic Innovations Transport Stream Multiplexers

Flexible Configuration and Management Options

- Offers a superior IP-oriented graphical user interface for ease of use
- Supports SNMP MIB2 remote configuration and management
- Supported by leading Network Management System (NMS) packages

Guaranteed Interoperability

- Conforms to DVB and ATSC standards
- Compatible with all major DVB and ATSC receivers including the Logic Innovations Edge Appliance line.
- Works in concert with industry standard IP multicast applications
- Provides direct connections to a wide range of transmission equipment

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Dependable Redundancy Support

- Provides one-for-one redundancy with minimal switching strategy
- Standby unit automatically mirrors the configuration of the Active unit
- Supports layer-2 IP redundancy via "Virtual IP address"
- Supports layer-3 IP redundancy via RIP announcements
- Fault input enables chain redundancy
- Contact closure on fault for external switch (component redundancy)
- Interfaces directly to Logic Innovations RS-1100 redundancy switch

Secure Data Transmission with Optional IP-level Encryption Software

- Does not impose additional in-band overhead
- No hardware is required at the receiver
- Works with both Unicast and Multicast applications

Technical Specifications

Data Throughput Configurations:

(Field upgradeable)	1 Kbps to 5 Mbps
	1 Kbps to 10 Mbps
	1 Kbps to 20 Mbps
	1 Kbps to 32 Mbps
	1 Kbps to 73 Mbps
	1 Kbps to 100 Mbps
	1 Kbps to 213 Mbps

IP Packet Throughput 100,000 PPS

Number of PIDs Supported 8192

Output Data Format MPE DSM-CC
datagram sections and data
piping (EN 301 192 and ATSC
A/90 compliant)

Input Interface 10/100/1000 Base-TX

Support for Scrambling IP level encryption

Support for IPCopy MAC address is derived
from IP address

SNMP Support MIB-II

IGMP Support Version 2

PSI Table Support PAT/PMT

IPE Output Interface Specifications

Output Interface	Max Data Rates	Connectors
DVB-ASI	213 Mbps	BNC (2)
SMPTE 325 (bi-directional)	200 Mbps	BNC (2)

Physical Characteristics

User Interface

Enclosure

Dimensions

Real-time status/activity
Ruggedized, 1-RU
Rack-mount
Depth =16" (40.6 cm)
Height =1.75" (4.5 cm)
Width =17" (43.2 cm)
RU 's =1

Weight

20 lbs (9.53 Kg)

Certifications

FCC and CE

Environmental

Operating Range Temperature	10° - 50° C (50° - 122° F)
Humidity	5% to 95%
Shock	3.5 g @10ms duration
Vibration	.5 g @22-100 Hz
Air flow	Front to back
Power Requirements	85-250VAC/50-60Hz/ <100 watts

Contact Logic Innovations for information on upgrades from IPE-2500 to IPE-3000

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