

VNP-200 Video & ASI Transmission System

High Performance, low latency leader.

IPtec specializes in facilitating high performance, low latency services over IP networks.

IPtec provides reliable, high quality products for low latency video and telemetry services. These products enable customers to transport high quality video and telemetry signals over IP networks.

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Standalone Video Codec

Linear video or DVB_ASI transmission over IP Low Latency Video transmission

Future Proof by Software Upgrade to:

- SMPTE 2022-6 transmission option
- JPEG2000 Mezzanine Compression options
- SMPTE 2022-5/6 to J2K Gateway
- HEVC Encoding/Decoding and Gateway/Transcoding

Integrated Test Patterns, and Alarms

Configuration via user-friendly WEB interface

SNMP Manageability

Broadcast Quality Video & Audio Processing

The VNP-200 is a standalone, high-quality video codec supporting bidirectional transmission of real-time video, audio and DVB_ASI signals over IP Networks. The system enables two channel or two-way (codec) transmission of Non-compressed SD & HD video or ASI and data over 10Gb/s IP networks.

Multiple Video/Audio user interfaces

The VNP-200 Transmits Standard- or High Definition video source or ASI signals for transmission over IP Networks. The Encoder accepts NTSC, PAL composite video, HDMI video, SDI/HD-SDI video or DVB-ASI signals.

Independent of the encoder configuration, the VNP-200 decoder reconstructs a SD/HD Video or ASI signals from an IP packet stream. The recovered video signals are available as baseband NTSC/PAL composite video signals, HDMI video signals, SDI/HD-SDI video or ASI signals.

Flexible System configurations

The VNP-200 is available in bi-directional codec configuration as well as single and dual Encoder or decoder configurations for uni-directional video/audio transmission for applications requiring high channel density in a small "foot-print.

Applications:

- ASI transport over IP Networks
- Broadcast contribution
- Real time Surveillance
- Tracking Video Surveillance

Network Interface

The VNP-200 is equipped with both optical (1/10Gb/s) and electrical network interfaces, supporting 10/100/1000Mbps. Multiple bridged Ethernet interfaces provide flexible installation and interconnectivity options.

Powerful Management

The VNP-200 is remotely manageable via a standard WEB interface and SNMP. Performance monitoring and system configuration capabilities facilitate installation and management in large networks.

VNP-200 Overview and Features

- Video Interfaces: HDMI and composite video I/O (NTSC & PAL), optional (Auto sensing SDI/HD-SDI)
- Two programmable DVB_ASI interfaces
- Serial data transmission (RS232, RS422 & others, “push to talk functionality”)
- IP Encapsulation/De-encapsulation of DVB/ASI Streams or Compressed Video/audio (TS)
- Processing Latency: 1mS
- Electrical & Optical Ethernet network/user interfaces
- UDP network protocols
- Uni-cast, Broadcast, and IGMP Multi-cast connections supported for each service.
- Remote Management
- Small “foot-print” with high Video channel density
- Multiple System configurations: Bi-directional video Codec (Encoder/Decoder), Uni-directional Single & Dual Encoders or decoders.
- Integrated Ethernet Switch
- LAN extension
- 1/10Gb/s optical interface

VNP-200 Technical Specifications

Base System interfaces

Baseband Video Input & Output

Composite 1Vp-p Video (PAL B/D/G/H/I/M/N & NTSC M), 75 Ohms unbalanced, BNC connector

HDMI Input & Output Interfaces

HDMI (720X480i30 to 1920X1080@60, with embedded audio support for SD & HD video)

Serial Data port

Density: 1 port Bi-directional (RS232/422)
Connector: DB-9

Serial Digital Video/ASI interfaces

SDI Video configurable Input or output

Density: 2 BNC connector
Configurable for: 2 inputs or 2 outputs or 1 input & 1 output
Formats: SDI, HD-SDI, 3G-SDI , DVB/ASI

Remote Management

Built-in Web-based GUI and SNMPv2 and v3

Ethernet Network Interface

One pluggable SFP+ module. 1/10Gb/s Base-X
Two RJ45.10/100/1000Base-T

Physical Dimensions

1RU, 1/2-width 19". Two units fit in a 19": (H x W x D)
1.75" x 8.50" x 10.00" (4.45 x 21.59 x 25.54) cm

Environmental Conditions

Operating Temperature: 0 to 40°C (32F to 104F)
Storage Temperature: -40 to 70°C (-40F to 158F)
Relative Humidity: 5% to 90% (Non Condensing)

Power

100 - 264V AC (47 - 63Hz) < 30W