

## IP TVGateway

The VBrick IP TVGateway provides an easy and cost effective means to distribute digital TV channels across IP networks. The solution eliminates the expense and limited access of legacy coax cabling; expanding the audience to any user that has LAN/WAN access – wired or wireless. Corporate, education, healthcare and government users now have access to TV broadcasts on: TV screens, PC/MAC desktops, digital signage and unified communication clients. As a component of a complete VBrick solution, video streams can also be recorded, stored and managed for future on-demand access.

VBrick's IP TVGateway connects to digital TV signals, providing IP streaming of standard definition and high-definition (HD) channels from DVB-T/T2 and DVB-S/S2 broadcasts. Its modular design is cost effective and easily expands; a one-slot-standalone as well as three and ten-slot rack mount chassis are available. Hot-swappable modules extract multiple streams of encoded audio and video from the broadcast signal. Each slot may be populated with either the DVB-S/S2 Gateway Module for satellite sources or the DVB-T/T2 Gateway Module for terrestrial sources.

As a capture device within the VBrick Enterprise Video Architecture (VEVA), IP TVGateway integrates with VBrick's Enterprise Media System (VEMS) enabling controlled access to program guide listings on PCs and Set Top Boxes as well as recording, storage and on-demand access.

### Applications

**Television Distribution** Eliminate the need to build or maintain a legacy coax network by delivering selected television channels, including news and financial programming, to unlimited numbers of desktops and displays across your existing LAN or WAN – wired or wireless.

**Unified Communications** Use the VBrick IPTVGateway in concert with the VBrick Lync and OCS Streaming Gateways to display live TV broadcasts in a Microsoft Lync or OCS client. View broadcasts and collaborate in real time with colleagues, partners and constituents.

**Digital Signage** Display live TV broadcasts within your signage displays. Integrates seamlessly with VBrick's Digital Signage solution.

### Features & Benefits

**Efficient and Cost Effective** Eliminate the need for multiple set-top boxes for decoding and multiple encoders for streaming channels on your network.

**Superior Quality** Stream in High Definition with support for the latest DVB-S2 and DVB-T2 standards.

**Conserve Bandwidth** Support for multicast delivery across the LAN enables additional users without requiring incremental bandwidth.

**Ease of Use** Leverage integration with VEMS media management solution for the creation of program guides and simplified stream selection at TV Screens and on the desktop.

**Lower Cost of Ownership** Robust appliance design eliminates managing O/S patches and security updates that plague PC designs.



### Product at a Glance

#### Media Redistribution

Stream satellite and terrestrial broadcast signals across IP networks (unicast or multicast) for display on PCs/MACs, TV screens, signage platforms, and unified communications clients.

#### Complete Solution

Integrates with the VEMS management system assuring that only authorized users have secure access to content and that central reporting is available.

#### MODELS

8000-0232 DVB-S/S2 IP TVGateway

8000-0234 DVB-T/T2 IP TVGateway

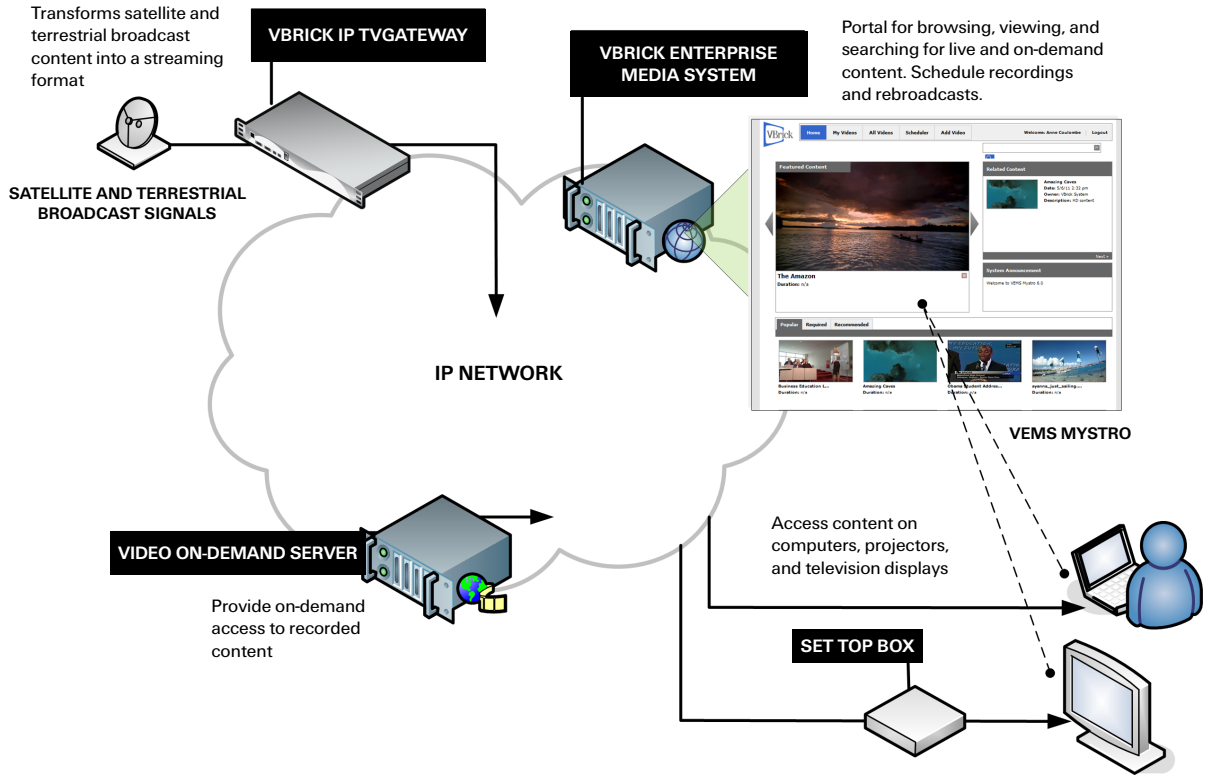
8570-2000 IP TVGateway 1 Slot Chassis

8570-2100 IP TVGateway 3 Slot Chassis

8570-2200 IP TVGateway 10 Slot Chassis



# IP TVGateway



## Specifications

### Feature Overview

- Two tuners per module
- Each tuner demultiplexes a single MPTS
- PID Filtering
- 80Mbps streaming throughput
- Serial Admin Port

### Protocols

- IP / UDP / TCP / ARP / DNS / DHCP / ICMP / IGMPv3 / TFTP / HTTP / Telnet / Syslog / NTP / SAP / SDP / RTP / RTSP / SNMPv1 / SNMPv2

### IP TVGateway Module Physical Specifications

- Dimensions: W 13cm x H 4cm x L 27.5cm (W 5.1" x H 1.6" x L 10.8")
- Weight: 0.5kg (1.1 pounds)
- Temperature Range: 0C to 40C Operating, -20C to 70C Storage
- Regulatory: CE

### DVB-T/T2 IP TVGateway Module RF Input

#### DVB-T

- Input Sensitivity: -77dBm
- Signal Modulation / Coding:
  - FFT: 2K, 8K
  - Modulation: QPSK, 16QAM, 64QAM
  - Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
  - Guard Interval: 1/4, 1/8, 1/16, 1/32
  - FEC: Reed Solomon & Viterbi

#### DVB-T2

- Input Sensitivity: -84dBm
- Signal Modulation / Coding:
  - FFT: 1K, 2K, 4K, 8K, 16K, 32K
  - Modulation: QPSK, 16QAM, 64QAM, 256QAM
  - Code Rate: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6
  - Guard Interval: 1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
  - FEC: LDPC & BCH

### DVB-S/S2 IP TVGateway Module RF Input

- Input Frequency Range: 950-2150 MHz
- Input Level: -69 to -25 dBm
- Signal Modulation / Coding:

#### DVB-S

- Modulation: QPSK
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- FEC: Reed Solomon & Viterbi

#### DVB-S2

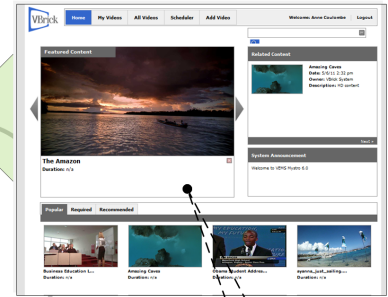
- Modulation: QPSK, 8PSK
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8, 9/10
- FEC: LDPC & BCH

### Enclosures and Accessories

#### Each enclosure provides:

- Ethernet jack with link and activity LEDs for each module
- Serial port over RJ45 for admin interface for each module
- Hot Swappable Blades

Portal for browsing, viewing, and searching for live and on-demand content. Schedule recordings and rebroadcasts.



VEMMS MYSTRO

Access content on computers, projectors, and television displays

SET TOP BOX

### 8570-2000 IP TVGateway 1 Slot Chassis

- Power: External 50W Supply, 110-240VAC, 50Hz-60Hz
- Dimensions: W 13.2cm x H 4.4cm x L 27.4cm (W 5.2" x H 1.7" x L 10.8")
- Regulatory: CE, EMC EN55022B, FCC

### 8570-2100 IP TVGateway 3 Slot Chassis

- Power: Internal 150W Supply, 110-240VAC, 50Hz-60Hz
- Dimensions: W 44.4cm x H 4.4cm x L 27.4cm (W 17.5" x H 1.7" x L 10.8")
- Standard mounting in 1RU of a 19" rack
- Regulatory: CE, EMC EN55022B, FCC

### 8570-2200 IP TVGateway 10 Slot Chassis

- Power: Up to 3 redundant internal 300W hot-swappable supplies, 110-240VAC, 50Hz-60Hz
- Dimensions: W 44.4cm x H 18cm x L 27.4cm (W 17.5" x H 7" x L 10.8")
- Standard mounting in 4RU of a 19" rack
- Regulatory: CE, EMC EN55022B, FCC

### Accessories

- 8572-2000 IP TVGateway 1 Slot Chassis:
  - Replacement Power Supply
- 8572-2200 IP TVGateway 10 Slot Chassis:
  - Replacement Power Supply
- 8571-2200 IP TVGateway 10 Slot Chassis:
  - Replacement Fan Module

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