Public Venue RF VOD III™
Compact (9.33 inches) Linux® based Wi-Fi Live or VOD (Video on Demand) 480p HLS server for use on buses, other mass transit, or public venues.
Plays content, pre-programmed ads, information videos, and full length movies on passengers own mobile devices. Supports 30 channels and up to 89 simultaneous users. Remotely manageable via IP ports. Content is easily uploaded to the removable SSD drive via IP. Ships with a small collection of classic movies. With optional 3G/4G router, acts as a high-performance Wi-Fi hotspot.

Features
- Miniature VOD server enables bus passengers to stream video or music to their mobile devices via Wi-Fi
- Also streams live – converts live IP streams to HLS and pushes them to connected mobile users via apps or web pages
- IP Input: H.264 transport stream files
- IP output: HLS/M3U8@480p
- Integrated with optional seat-side USB power supply to provide charging to mobile devices
- Supports modern Apple iOS and Android™ devices
- Supports 2.4G Wi-Fi to increase the number of online devices
- Supports up to 89 simultaneous users
- With optional 3G/4G router, acts as a high-performance Wi-Fi hotspot
- Supports up to 30 channels
- Operators can offer the service for free and generate revenue from ads (plays up to ten 30-second ads), or operators can offer the service as pay TV
- Two SATA interfaces allow installation of SSD disks to store lots of digital content
- Web-based GUI enables operators to manage ads, content, and server settings
- Passenger program guides can be displayed in multiple languages
- Larger external Wi-Fi antennas can be applied to improve the coverage range

Applications
- Entertainment and Information on municipal buses, school buses, tour buses, and trains
- Hospitals and medical offices
- Schools and universities
- Hotel Wi-Fi systems

Overview
The Public Venue RF VOD III OTT system is a "mini" self-standing VOD server with an onboard Wi-Fi server which enables passengers/consumers to use their own smart phones or tablets to watch VOD or live movies, listen to music, or access information. This state-of-the-art, wireless-based system consists of an HLS server with 2.4G Wi-Fi, system management software, and optional 3G/4G router and Wi-Fi-based end-user devices.

The system includes several ad spots for operators to inject ads for revenue stream. The server also comes with a front-side removable SSD drive for easy replacement of content.

Currently some bus systems offer Wi-Fi via cellular connections, but block video due to limited bandwidth. With the Public Venue RF VOD III, operators give passengers the ability to select video content from local storage. The system ships with a number of out-of-copyright full length movies.

This mini VOD system can be deployed in buses, MDU, hospitals, clubs, classrooms, restaurants, and more.

Application Example

Computer Modules, Inc.
11409 West Bernardo Court
San Diego, CA 92127
Tel: 858-613-1818   Fax: 858-613-1815
www.dveo.com
Adding VOD Content

The Public Venue RF VOD III includes VOD III Content Producer software to package MPEG-4 files to HLS/M3U8. Operators can create up to 30 channels and add images for channels and programs to the included EPG.

The resulting VOD content is copied from your PC or laptop to the Public Venue RF VOD III via the network sharing mechanism provided with the system. The system stores up to one TB via SSD.

Specifications

Input

- Video – IP: H.264/MPEG-4 AVC
- Maximum Channels: 30 (480p, 500 Kbps)
- Maximum Simultaneous Users with built-in router:
  - 89 Users: 360p (480 x 360)
  - 50 Users: 480p (640 x 480) – Default
  - 20 Users: 720p (1080 x 720)

Ethernet: One WAN: 10/100/1000 Mbps
Four LAN: 10/100/1000 Mbps

Wi-Fi AP: Two 2.4 GHz Antennas

USB: One USB 3.0, one USB 2.0

Mini PCIe: Two mini PCIe 1.1 connectors

Optional 3G/4G Router: Can link to 3G/4G router to share client

IP Output Formats

<table>
<thead>
<tr>
<th>Category</th>
<th>Option</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access</td>
<td>240p (320x240, 20 fps)</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>360p (480x360, 20 fps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>480p (640x480, 24 fps)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>720p (1280x720, 30 fps)</td>
<td></td>
</tr>
<tr>
<td>Video Bitrate:</td>
<td>450 Kbps</td>
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<tr>
<td></td>
<td>750 Kbps</td>
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<td></td>
<td>1,000 Kbps</td>
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<tr>
<td></td>
<td>1,500 Kbps</td>
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</tr>
<tr>
<td>Audio Bitrate:</td>
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</tr>
<tr>
<td></td>
<td>64 Kbps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>128 Kbps</td>
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</tbody>
</table>

Administration

- Access: Web interface
- Software to Prepare Video Content: VOD III Content Producer

CPU and Operating System

- CPU: Two MIPS 880 MHz
- Operating System: Embedded Linux®
- Storage: Rear panel 2-bay 2.5 inch SATA slot for SSD (max 1 TB) storage
- RAM: 512 MB

Physical & Power

- Size (W x D x H): 9.3 x 6.5 x 1.58 inches (237 x 165 x 40 mm)
- Weight: 2.65 lbs (1.2 kg)
- Power: 12V/2A input via wall adapter
- Power Consumption: 36W
- Conformities: UL, FCC, CE, RoHS

Log In

No Log In and password needed