

# DOZERbox IP IP™ R

**Real Time, Embedded Linux® Based IP Gateways for Reliable and Timely Delivery of Video Traffic Over Public Internet. Offers Dependable Distribution of MPEG-2 or H.264 SPTS or MPTS Transport Streams Over Average Quality Internet Backbones. Ideal for Broadcasters, Mobile Operators, and Telcos Who are Deploying Critical Streams Across the Public Internet to be Competitive. Provides Reliable and Consistent Video Delivery with UDP Protocol. Based on Media Dozer™ Software that "Pushes Through" Routers and Enables IPTV Operators and Over The Top Video Providers to Improve Their Video Distribution by Enabling Smooth Video with Low Delay. Documented Results.**

## Features

- Supports both HD and SD H.264/MPEG-4 AVC or MPEG-2 encoded streams
- Supports unusual video routing protocols
- Inputs/Outputs: Gig/E
- Guaranteed packet delivery with UDP protocol with 20% packet drop
- Supports IP UDP unicast and multicast, in or out
- Uses proprietary and sophisticated data and streaming management algorithms in order to optimize traffic that traverses across managed switches and routers
- Transparently transmits Multicast or Unicast UDP/RTP transport streams (MPEG-2 TS) from one network to another across any internet connection
- Supports any MPTS or SPTS stream with any compliant codec inside (H.264, MPEG-2, AAC, etc.)
- Will not alter the internal structure of the transport stream (PAT, PMT, etc.)
- IP address and Port can be remapped to different ones if necessary in the remote network
- Proprietary protocol is resistant to packet loss and corrects for internet jitter and packet reordering
- Private Line between devices supports AES-128 encryption and compression
- Configurable destination port on listener for firewall traversal
- Can be configured for point-to-point or point-to-multipoint functionality
- Supports dual destination in primary/backup configuration for redundant setups
- Each device can be configured as a sender, a receiver, or both
- One sender can connect to up to 4 receiver devices
- Each device can have up to 8 separate receiver profiles, each capable of receiving up to 250 simultaneous clients (senders)
- Each connected client (sender) is authenticated with a user name and password for additional security
- SNMP, REST, SOAP support
- Certified with numbers generated with WAN Emulator Appliance testing
- Also available: Compact DOZERbox based on Intel® NUC



## Overview

We all know that the Public Internet has improved dramatically all over the world, but especially in the Western World. We have all become voracious consumers of bandwidth by using video sites like YouTube, Hulu, CNN, and other streaming services. The Internet has largely kept up. But like in any jungle, there are thin and thick areas to penetrate through. When the jungle gets thick the traffic slows down.

Despite the abundant bandwidth, mission critical video traffic has been relegated to dedicated lines, services, or CDNs. This is because of fear, uncertainty, and doubt. Our engineers recently developed a "technique" that allows video traffic to bulldoze through slow and congested routers, even when UDP protocol is employed. Basically – we send a minimal set of redundant packets along with original packets.

DOZERbox IP IP "bulldozes" through routers and enables IPTV operators and Over The Top video providers to improve their video distribution by enabling smooth low delay High Definition and Adaptive video streaming.

The DOZERbox IP IP software is available as an add-on for our encoder and gateway appliances, or as a license for your device – order the Media Dozer: LIC™. We are actively negotiating with several IP STB vendors who are embedding the "receive" module in their IP stack.

## Applications

- Creating your advanced CDN via Optimal Delivery
- Replacing Dedicated IP connections for Video Delivery with Public Internet
- Large file transfers over IP
- Enhanced Video Quality over Public Internet
- Replacing satellite and dedicated lines
- Replacing point to point dedicated IP with DOZERboxes at end points



**Computer Modules, Inc.**

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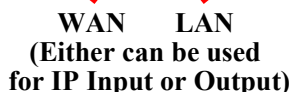
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|--------------------|---------|
| IP Input protocols | UDP/RTP |
|--------------------|---------|

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|---------|------------------------------|
| Access: | Web interface, ssh interface |
| SNMP:   | Monitoring and alerts        |

|      |                                   |
|------|-----------------------------------|
| CPU: | Intel® Xeon® E5-1270v2 Ivy Bridge |
| OS:  | DVEO embedded Linux® on SSD       |

|                     |          |
|---------------------|----------|
| Latency:            | 2 frames |
| Bandwidth Overhead: | 7%       |

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| Size – 1 RU high:      | 19 x 14.96 x 1.7 inches (W x D x H)<br>483 x 380 x 43.4 mm (W x D x H) |
| Voltage:               | 100-240V, 4-2A, 60-50 Hz, 220 watts                                    |
| Operating Temperature: | 10°C to 35°C                                                           |
| Humidity:              | 20% to 90% non-condensing                                              |
| Conformities:          | UL, BSMI, CSA, FCC, CE, RoHs                                           |
| Weight:                | 15 lbs. (6.8 kg)                                                       |

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