

# DOZER RACK IP/ASI™

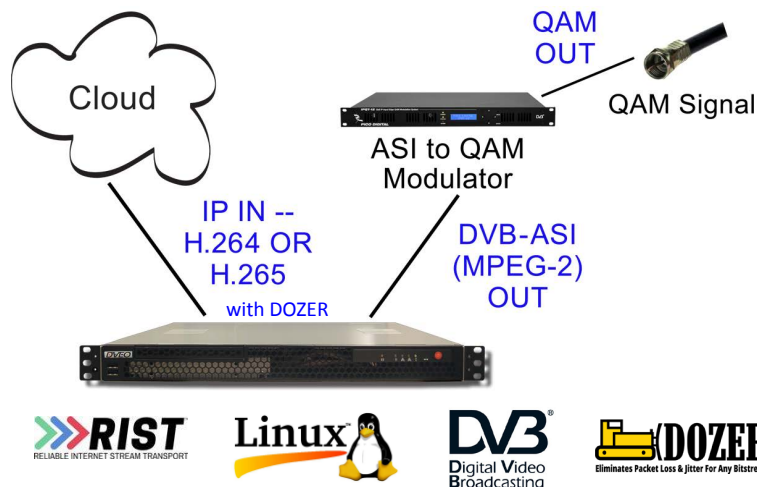
Real Time, 1 RU, Quick Starting, Embedded Linux® Based, Remotely Manageable, SD or HD, H.264/AVC or H.265/HEVC Video and Audio IP to ASI Converter with Transcoder for Receiving Live MPEG-2, H.264, or H.265 Streams with Most Any TS Protocol IP Input. Supports UDP with DOZER RIST. In and Converts the H.264 AVC or H.265 to MPEG-2 Compressed Digital Video and Audio. Incoming Audio Support for AAC or MPEG-1 Layer II. Output Audio is MPEG Audio or Optional Dolby®. Transcodes at .1 to 15 Mbps. Ideal Decoder for Receiving and Decoding of Streaming Video from Remote Sites, Content Delivery Networks (CDNs), or IPTV Compatible Appliances or Players. Tested to Work Over Public Internet, WiFi and Other RF Backbones.

## Features

- Supports both HD and SD H.265/HEVC, H.264/MPEG-4 AVC, or MPEG-2 decoding
- Input: Bursty or smooth IP
- Output: MPEG-2 over ASI and/or IP
- Security scanned for vulnerabilities
- IP Input protocols: UDP with DOZER or RIST
- Supports input and output resolutions of 1080i, 1080p, 720p, 480i, 480p, CIF, QCIF, and qHD
- Audio Input: AAC, MPEG-1 Layer II, optional MP3, or optional “SurCode for Dolby Digital” AC-3
- Audio Output: MPEG-1 Layer II or optional Dolby® AC-3
- Remote GUI includes some scheduling
- Can be used to store or time-delay incoming stream with optional storage add-on
- SNMP, REST, SOAP support for remote management and monitoring
- Relies on Intel® Xeon® processor

## Applications

- Converting "DOZER" IP streams to DVB-ASI wherever they may come from
- IP Camera Decoder for cable head ends
- H.265 or H.264 to MPEG-2 with ASI for cable head ends
- H.265 or H.264 streaming to Cable Head Ends
- H.265 or H.264 to MPEG-2 transcoder
- Decoding H.264, H.265, MPEG-2



## Overview

DOZER is our patented extension of UDP protocol. It was developed to eliminate packet loss on congested networks. We support several types of end points including, HDMI, HSDI, IP and now ASI.

DVEO's DOZER ecosystem supports several types of outputs including ASI, IP, and HSDI

ASI was invented in 2001 to support high speed transport stream transfers between devices such as IRD's and modulators. It supports 213 Mbps data rates and relies on BNC connectors and coaxial cable. It is still here in as much as it is a traditional way to carry MPEG-2, and MPEG-2 is very much alive in America and Korea due to the ATSC 1.0 standard.

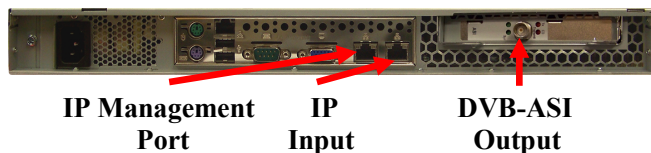
The DOZER Rack IP ASI accepts feeds from any DOZER source and converts it to ASI or can parse the streams and transcode them to MPEG-2 before pushing them out via its ASI port. It is designed as an endpoint for point to multipoint delivery of video. Due to its ASI output it works best in MPEG-2 delivery environments.



Computer Modules, Inc.  
11409 West Bernardo Court  
San Diego, CA 92127  
Tel: 858-613-1818 Fax: 858-613-1815  
[www.dveo.com](http://www.dveo.com)

# Inputs/Outputs

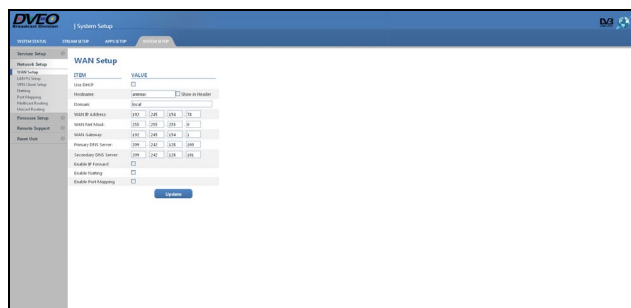
## Standard Version



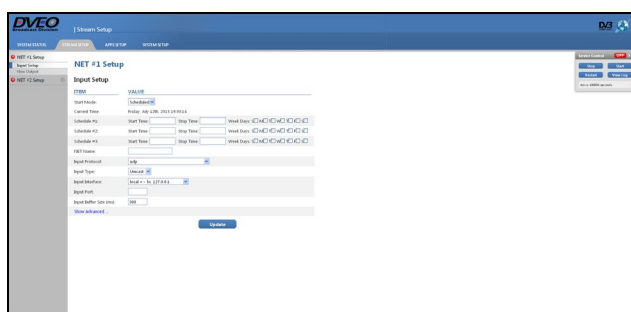
## Telco Version



# Sample of GUIs



Network Setup



Scheduled IP Input Setup

# Ordering Information

DOZER RACK IP/ASI

© 2019 Computer Modules, Inc. DVEO, DOZER, and DOZER RACK IP/ASI are trademarks of Computer Modules, Inc. Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries. All other trademarks and registered trademarks are the properties of their respective owners. All rights reserved. Specifications are subject to change without notice. AAC licensed via Via Licensing.

# Specifications

## Supported Resolutions – Input

1920 x 1080	720 x 480	480 x 480	qHD
1280 x 720	704 x 480	480 x 320	
720 x 576	640 x 480	320 x 240	

Note: Supports closed captions.

## IP Input

IP Input protocols	UDP
Audio Input:	AAC, MPEG-1 Layer II, optional MP3, and/or optional “SurCode for Dolby Digital” AC-3
Type:	IP multicast, IP unicast
Remote Setup – IMPORTANT:	User may need to assign static IP or provide access to router

## DVB-ASI Output

Output:	DVB-ASI, 213 Mbps
Bit rates:	Multiple MPEG-2 video streams at different bit rates (.1 to 15 mbps)
Audio:	MPEG-1 Layer II, Optional AC-3

## Outputs

Output Formats:	MPEG-2, 1080p 30, H.264 1080 p30
-----------------	----------------------------------

## Administration

Access:	Web interface, SSH (Secure command line interface)
SNMP:	Monitoring and alerts
Scheduling:	On, Off support for timeslots

## CPU and Operating System

CPU:	Intel® Xeon® processor
OS:	DVEO embedded Linux® on SSD

## Physical & Power

Size – 1 RU high:	19 x 14.96 x 1.7 inches (W x D x H) 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
Non-operating Humidity:	20% to 90% non-condensing
Weight:	15 lbs. (6.8 kg)
Conformities:	UL, BSMI, CSA, FCC, CE, RoHS 

## Security

Ports security scanned to MIL requirements prior to shipment
--



**Computer Modules, Inc.**  
**11409 West Bernardo Court**  
**San Diego, CA 92127**  
**Tel: 858-613-1818 Fax: 858-613-1815**  
[www.dveo.com](http://www.dveo.com)