



etherDVB

Digital Video to IP Gateway

Digital TV channels on your LAN

EtherDVB network appliances give you an affordable way to deliver live television services throughout your TCP/IP network.

Each EtherDVB can receive a number of digital satellite or terrestrial channels which are then broadcast on your multicast-enabled data network. Multicast technology allows efficient distribution of these high-bandwidth services to only those users on your network that request them.

The IPTV channels can be displayed using a set-top-box with any type of projector, screen or TV. It's a great solution for replacing an old cable TV network by using your existing LAN. Windows, Mac and Linux users can watch the channels on their PC using free, open-source software.

EtherDVBs are configured in minutes using a web browser and are built for uninterrupted operation. Each unit can be ordered with any combination of two DVB-T, DVB-S or Analogue inputs so you can build a TV reticulation service to meet your specific requirements.

Each TV channel can be sent to one or more unicast or multicast destination addresses allowing local or global network reach.

The EtherDVB solution is purpose-built for reliable IPTV distribution on campus, corporate, telco and ISP networks. It scales to deliver as many TV services as you can receive and automatically recovers from signal outages.

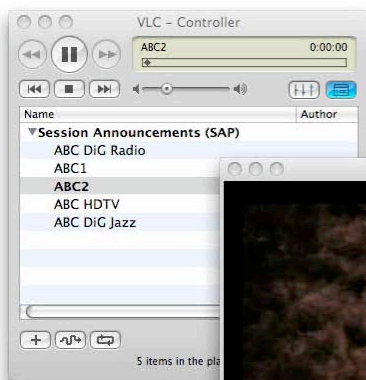


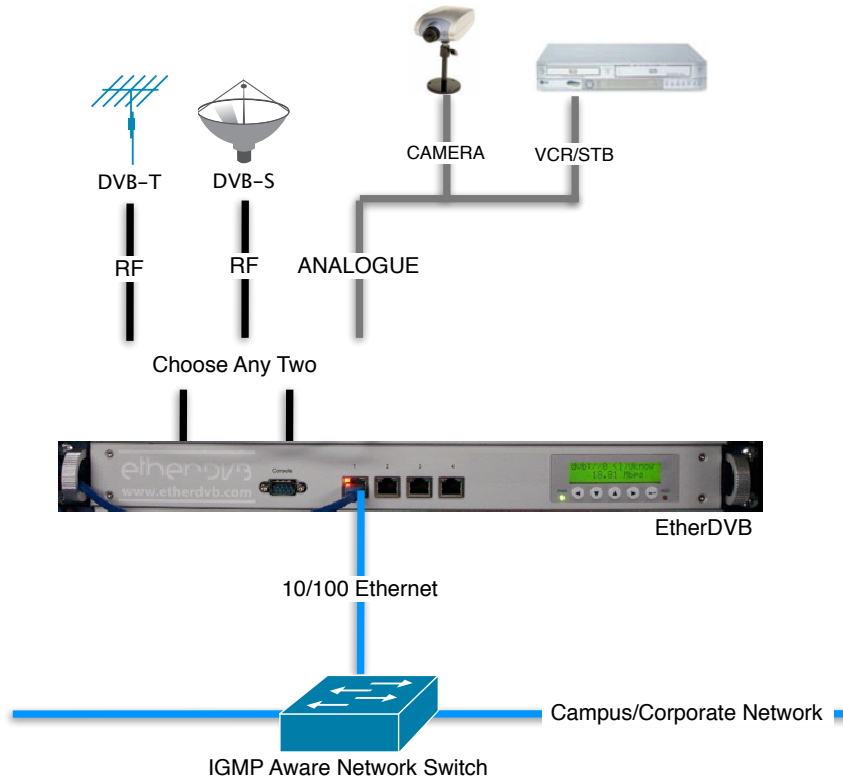
EtherDVB Features

- Two inputs per unit, mix and match your configuration (DVB-T, DVB-S, Analogue)
- Rack mounted 1RU design
- Easy configuration and operation
- Detailed stream specification (destinations, bandwidth, SAP, TTL)
- Standards compliant, it just works (TCP/IP, UDP, MPEG-2 TS, SAP, IGMP)
- Admin access security controls
- Auto scanning for DVB-T channels
- Configuration backup and restore

Implementations

- Use 3 EtherDVBs each with 2 DVB-T inputs to reticulate all the digital channels broadcast by six network providers. All your local free-to-air channels can be watched by any PC on your LAN.
- Use an EtherDVB with 2 Analogue inputs to reticulate the audio and video signals from your security system to anywhere on your corporate network.
- Use DVB-S equipped EtherDVBs to add satellite TV channels to your campus.





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dvb://1 - DVB Terrestrial

Network Name: ABC Southern NSW **Bitrate:** 22.357 Mb/s

BER: 0 **Strength:** 93 % **SNR:** 88 db

Basic Settings **Bouquet Presets**

Frequency: 205.666 MHz **Inversion:** on **Bandwidth:** 7

QAM: 64 **Code rate HP:** 3/4 **Code rate LP:** 1/2

Transmission mode: 8k **Guard Interval:** 1/16 **Heirarchy:** none

Update Tuner Settings

Program	Name	Access	State	Bitrate	Streams
dvb://1528	ABC HDTV	Open	Idle	10.394 Mb/s	
dvb://1529	ABC1	Open	Streaming	6.397 Mb/s	x 1
dvb://1530	ABC2	Open	Idle	4.953 Mb/s	
dvb://1531	ABC1	Open	Idle	5.977 Mb/s	
dvb://1532	ABC3	Open	Idle	5.900 Mb/s	
dvb://1534	ABC DiG Radio	Open	Idle	0.269 Mb/s	
dvb://1535	ABC DiG Jazz	Open	Idle	0.269 Mb/s	

DVB-T Terrestrial Tuner Settings

dvb://0 - DVB Satellite

Program ID: dvb://0/2 **Program Number:** 2

Name: Bloomberg **Access:** Free

State: Streaming **Created:** 16/Jun/2008 19:10:39 +1000

Bitrate: 3.943 Mb/s **PIDS:** PMT 5002 / PCR 1020

PID	Type	Description	PPS	Bitrate
1020	Video	544x576 pixels, 25 Hz, 4x3 ratio	2310	3.474 Mb/s
1021	Audio	MPEG Audio	157	0.236 Mb/s
1022	Audio	MPEG Audio	158	0.238 Mb/s

Group	Port	TTL	TOS	SAP	Interface	Action
239.255.1.1	1234	4	0	Bloomberg	eth0	Cancel
	1234	4	0	Bloomberg	eth0	Create

Relaying a DVB-S Channel to the Network

SAP Server

SAP announcement active

Description	Group	Port	TTL	Action
Lecture Theatre 17	239.255.1.101	1234	2	Delete
Lecture Theatre 18	239.255.1.101	1234	2	Create

Instructions

- Only use this SAP server to announce MPEG2 transport streams carried directly within UDP packets
- In the description specify an optional '/' to specify a group name in addition to the program name, ie: <group>/<program>
- Group must be in the multicast address range (ie: 224.0.0.0/4)
- The fields **port** and **TTL** will use system defaults if left blank

SAP Server Creating Ad-hoc Announcements