

DESCRIPTION

The Radiant Communications series VL4119 reliably transports SD-SDI, SDTI, or DVB-ASI (MPEG2-TS) video in real time over standard Gigabit Ethernet or Fast Ethernet, 100 Mb/s IP networks, depending on the bandwidth requirement of the video stream. All ancillary data, including digital audio and timing, is transported across the link with the video stream.

A software package allows you to control the VL4119 links over a network. The encoder auto-detects the incoming SDI or DVB video signal, converts it quickly and efficiently to IP packets, and transports it over your GigE or Fast Ethernet network. At the other end of the connection, the video is returned to its original format by a VL4119-R unit.

Radiant's VL4119 converter does not compress or decompress the signal, so there are no video quality compromises. Jitter control is exceptional, transfer is lossless, and end-to-end latency is low and predictable.

With the Radiant VL4119, video distribution systems can leverage GigE's inherent long reach, networking flexibility, and scalability. Switched or fiber-based GigE video networks, for example, deliver virtually unlimited transmission distances, while point-to-point

On the networking front, the unit supports multicasting, which means the same video signal can be sent through a switch to more than one destination simultaneously.



**Radiant Communications Corporation**

## ▶ VL4119 ASI over IP Encoder/Decoder

BENEFITS

Send DVB-ASI over network for unlimited distance applications

Bandwidth rates from 19 Mbps to 270 Mbps

Simple transport of signal over network connection

FEATURES

Backhaul signals to distant headends

Low latency - adjustable from 750 microseconds to 233 milliseconds

All SD-SDI data is transported –including ancillary data

Unicast and Multicast support



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# ▶ VL4119 ASI over IP Encoder and Decoder

## SPECIFICATIONS

### Video/Audio

Video System: ASI  
Signals: 1 Transport stream with multiple combined streams  
Video Level: 1Vp-p  
Video I/O Level: 75 Ohms  
Connector: BNC –two (video in/video out)

### Network

Data Rate: requires up to 270 Mbps on your network  
Connector: RJ45  
Standard: IEEE 802.3  
Jitter control: +/- 100 ns, steady state  
Jitter tolerance: +/- 0.3 UI  
Protocols: Multicast, Unicast, IGMP, UDP, IP

### General Characteristics

Power consumption: 3.75 W  
Operating Temp: 0° to 70° C  
Storage Temp: -10° to 70° C  
Humidity: 10 to 90 % non-condensing  
Size: 17.0" W x 13.0" D x 1.75" H  
Weight: 3 pounds

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
VL4119-E	ASI to IP Encoder
VL4119-D	ASI to IP Decoder

### Notes:

- Due to product enhancements, specifications are subject to change without notice



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