



Radiant Communications Corp.
rccfiber.com



VL4510H

HDMI SD/HD MPEG2 and AVC Encoder



HIGHLIGHTS

- Resolutions up to 1080p60
- Professional HDMI Input (non HDCP)
- Two different audio/video profiles
- Broadcast delivery over public Internet
- Dual Profile MPEG DASH
- HLS
- REST API
- Down/Up-conversion option and deinterlacer
- MPEG2 and h.264 video codecs
- AAC, AC3 and MPEG Layer II audio
- Intuitive web based GUI and Rugged

VividEdge VL4510H is a broadcast quality HDMI multi profile encoder for resolutions of up to 1080p. The VividEdge series of encoders provide a cost-effective solution ideal for MDU, Hospitality, Campus, Remote Education and Houses of worship, Medical applications, and any video insertion or backhaul through gigabit networks or public internet.

Efficient codecs and thermal design allow delivery of HD and SD video encoded programs in rugged, compact, and light weight system design and deployment in locations not suitable for broadcast equipment.

VividEdge SRT video transport protocol enables the delivery of high-quality and secure, low-latency video across the public Internet, reducing equipment and transport/service cost.





VL4510H Series HDMI SD/HD MPEG2 and AVC Encoder

SPECIFICATIONS

HDMI INPUT

Non HDCP HDMI pro input for up to 1080p60 resolutions
Embedded stereo audio

TS OUTPUT

ISO/IEC 13818 SPTS/MPTS MPEG TS, 1000BaseT
Public network/Internet SRT Streaming Protocol
Dual Profile MPEG DASH, HLS

IR CONTROL PORTS

IR blaster ports

NETWORK PORT

1 x 10/100/1000 Base RJ45, Management and TS VLAN

MANAGEMENT

Inbound web based Encoder Management
REST API
VCDMS

RF OUTPUT

1x 64-256 QAM Annex B, 54 mHz-1GHz, MER<40, +55dBmV

VIDEO AND AUDIO

MPEG-2 MP@ML	1-15Mbps
MPEG-2 MP@HL	2-24Mbps
h.264 AVC MP@L3.0	0.5-8Mbps
h.264 AVC MP@L4.2	2-24Mbps
MPEG-2 GOP	10-60 FRAMES, IBBP
h.264 AVC GOP	10-240 FRAMES, IBBBBP
RESOLUTIONS:	320x256p, 480x320p, 640x480p, 480p, 720p and 1080p
FRAMERATES:	24, 25, 29.97, 30, 59.94 and 60fps
CHROMA:	4:2:0
AUDIO CODEC:	Dolby Digital 2.0, MPEG Layer2, AAC
SAMPLING RATE:	48kHz
BITRATE:	93-384kbps

**Optional support for AUD

ENVIROMENTAL AND POWER

Power	35W @ 90 to 240VAC (DC Power Brick)
Weight	5lb
Operational Temp	0° to 50° C
Storage Temp	-10° to 60° C
Dimensions	1RU 17.0" W x 9.0"D x 1.75" H

ORDERING INFORMATION

VL4510H	Insertion Encoder, 1 x HDMI Input, IP, DASH HLS, and SRT Output
VL4510H-Q	Insertion Encoder in Mini Chassis, 1x HDMI input, IP, DASH, HLS , SRT or QAM Output
VL4510H-2	Insertion Encoder, 2 x HDMI Input, IP, DASH, HLS, and SRT Output
VL4510H-2-Q	Insertion Encoder in Mini Chassis, 2x HDMI input, IP, DASH, HLS , SRT or QAM Output

** Q2 2025

QRF5000H units are covered by Radiant Communications Corporation 1 year limited warranty and basic support. Please contact the factory for extended support and maintenance packages.

