VL4510H Series

SD/HD MPEG2 and AVC Encoder

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, Houses of worship, Medical applications, PEG 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.

HDMI VIDEO SOURCE
GATE CAMERAS
IN-HOUSE CHANNELS

HFC
RFoG, FIBER DEEP
PON, OTT
SRT Transport

VL4510HM Mini Chassis Version

HIGHLIGHTS

♦ Resolutions up to from mobile to 1080p60

♦ Professional HDMI Input (non HDCP)

♦ Up to 4 different audio/video profiles

♦ Broadcast delivery over public Internet

♦ Down/Up-conversion option and deinterlacer

♦ MPEG2 and h.264 video codecs

♦ AAC, AC3 and MPEG Layer II audio codecs

♦ Intuitive web based GUI and Rugged hardware design

vividedge

Radiant Communications Corp.
www.rccfiber.com

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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

DVB ASI Output up to 54M, BNC 75 ohm

QAM OUTPUT

QAM 64/256 Annex B, 54Mhz—1GHz, MER <40, 55dBmV

DWDM ITU (ch18 to ch64) Laser, 7mW, 11% OMI

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

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

ORDEING INOFRMATION

VL4510H	Insertion Encoder, 1 x HDMI Input, IP and SRT Output
VL4510HQ [1]	Insertion Encoder, 1 x HDMI Input, IP, SRT, ASI and QAM Output
VL4510HQFX [1]	Insertion Encoder, 1 x HDMI Input, IP, SRT, ASI and DWM RF Output
VL4510HI [1]	Insertion Encoder, 1 x HDMI Input, IP, RTMP and SRT Output
VL4510HM [1]	Insertion Encoder in Mini Chassis, 1x HDMI input, IP and SRT Output

VL4510H units are covered by Radiant Communications Corporation 1 year limited warranty and basic support. Please contact the factory for extended support and maintenance packages.

1. Available in Q4 of 2020

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