Zeus®
by Z3 Technology

Z3-SME-01
Ultra-Compact 1080p60 Video Encoder

1080p
720p
QCIF

HD RESOLUTIONS

FEC
FORWARD ERROR CORRECTION

f LIVE
YouTube
SOCIAL STREAMING

EASY-TO-USE CONTROLS

VIDEO ENCODING

Interfaces	1x Composite Input 1x HDMI Input 1x GigE
Supported Resolutions	H.264 BP, MP and HP up to 1080p60, Dual Channel encode of up to 1x 1080i + 1x 480i
Video Codecs	H.264
Standard Definition	ISDB-T, DVB-H and others*
Output Formats	MPEG-2 TS, RTP, RTSP, RTMP, RTMPS, TSRTP, MPTS and TSFile
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p
Features	•Supports YouTube/Facebook Live •Closed Captioning (EIA-608, EIA-708) •Supports unicast and multicast •Stream one source into multiple resolutions and bitrates •High quality deinterlacer

AUDIO ENCODING

Interfaces	Embedded HDMI Audio
Audio Codecs	AAC-LC ADTS and AAC-HE ADTS
Optional Audio Codecs	AAC-LC LATM, AAC-HE LATM, AAC-HE V2, G.711 and PCM
Audio Bitrate	12 to 320 kbps

SPECIFICATIONS

Dimensions	98 x 81 x 21 mm (3.88 x 3.19 x 0.81 in)
Weight	221 g (0.49 lb)

VIDEO DECODING

Interfaces	1x HDMI Output 1x GigE
Supported Resolutions	H.264 BP, MP and HP up to 1080p60
Video Codecs	H.264
Input Formats	MPEG-2 TS, RTP, RTSP, TSRTP and TSFile
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p
Features	•Pro-MPEG Forward Error Correction (FEC) for decode

AUDIO DECODING

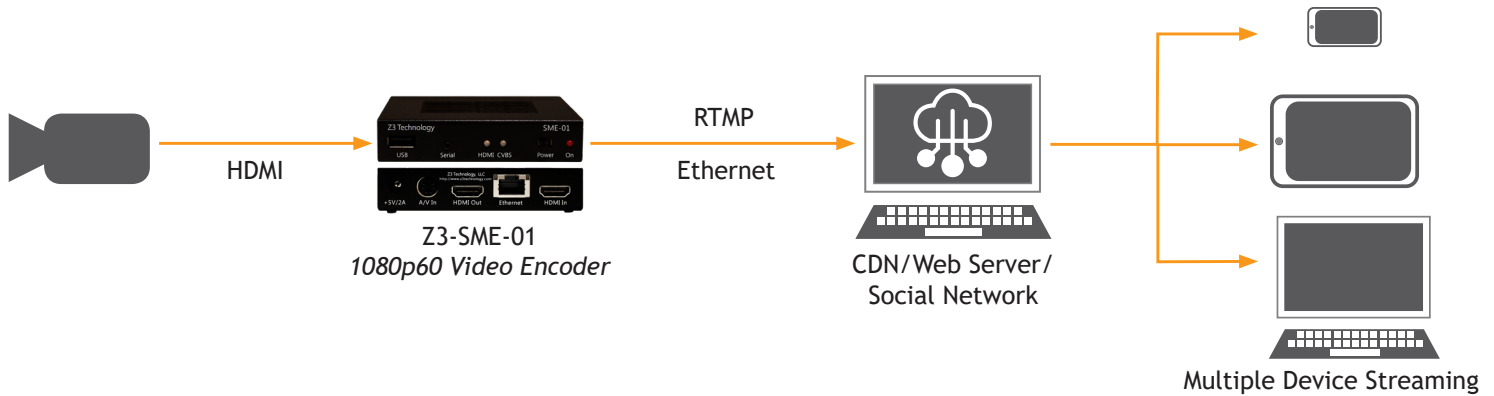|	
Audio Codecs	AAC-LC ADTS and AAC-HE ADTS
Audio Bitrate	12 to 384 kbps

OTHER

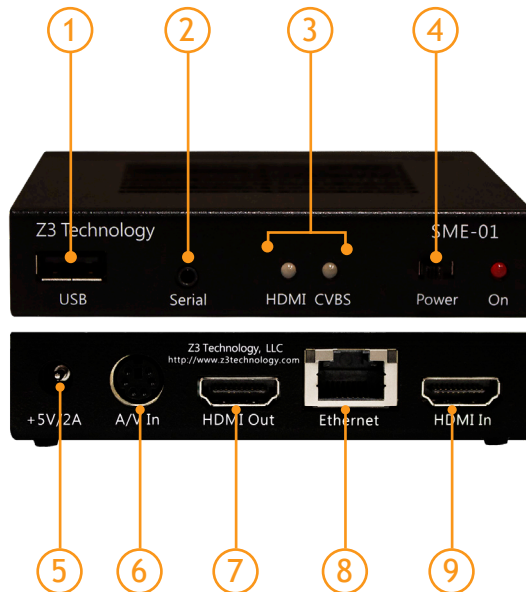|	
Network Management	Device IP, Subnet Mask, Gateway
Additional Interfaces	USB 2.0 and RS-232 Serial
Software Control	HTTP-Based GUI: Configuration and Software Update RS-232: Configuration
Power	5V External Power Supply Low Power Consumption, 5W Typical
Temperature and Humidity	Operating: 0 to 60 degrees C at 15-80% Relative Humidity, non-condensing Storage: -10 to 75 degrees C at 15-80% Relative Humidity, non-condensing

IP VIDEO STREAMING WITH THE
Z3-SME-01

The ZEUS Z3-SME-01 offers the ideal solution for streaming your live event. The diagram below demonstrates the Z3-SME-01 encoding 1080p60 video from HDMI and sending it out over Ethernet via RTMP to a CDN or Web Server, such as Wowza Streaming Engine™, or social network, including YouTube Live, where it is distributed for viewing on mobile, tablet and desktop devices.

HDMI

RTMP

Ethernet

Z3-SME-01
1080p60 Video Encoder

CDN/Web Server/
Social Network

Multiple Device Streaming

OPERATING CONTROLS

① USB 2.0

② RS-232 Serial Port

③ Status LEDs

④ Power Switch

⑤ 5V 2A Power

⑥ Composite Input

⑦ HDMI Output

⑧ Ethernet

⑨ HDMI Input

*Contact Z³ Technology for Customized Product Options

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