



# SEM-1110

**Preliminary**



- MPEG-4 ASP compliant compression
- CIF up to full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming
- Digital time code embedded
- Bi-directional audio supported
- Isolated digital input and output supported
- Three options for video interfacing - composite or S-Video or component

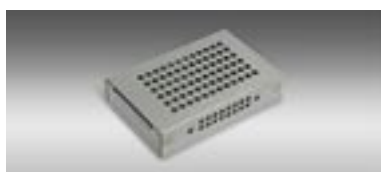
► **Transmit analog image into digital data with ultra high resolution**

The SEM-1110 is a module device for system OEM to incorporate into a final system device. The SEM-1110 is a SoC based, fully integrated video/audio compression module that combines with a low cost advantage and reliable networking capable for meeting IP environment of Security Market. The SEM-1110 offers the highest compression rate on the market via MPEG-4 technology for live like images and faster on-line image transmission.

## PRODUCT SPECIFICATION

Video Compression	
Compression	MPEG-4 ASP Compliant
Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x112 in NTSC, 176x144 in PAL)
Bit Rate	28 K ~ 3 M bps
Image Frame Rate	30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)
Video Input	
Video Input	<ul style="list-style-type: none"> <li>• CVBS, 1.0Vp-p with 75 Ω loading</li> <li>• Y/C, 1.0Vp-p with 75 Ω loading / 0.286Vp-p with 75 Ω loading</li> <li>• YPbPr, 1.0Vp-p with 75 Ω loading / 0.7Vp-p with 75 Ω loading / 0.7Vp-p with 75 Ω loading</li> </ul>
Video Output	
Composite Output	CVBS, 1.0Vp-p with 75Ω loading
Audio Input	
Compression	8 kHz, Mono, PCM
Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms
Audio Output	
Compression	8 kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms
Alarm	
Input	2, TTL
Output	2, TTL

Remote Control	
Serial Port	RS-485: half duplex; RS-422: full duplex RS-232: full duplex
External I/O	
Reset Key	Factory default
LED	System status / network status / serial port status
Network	
LAN Port	Ethernet (10/100Base-T)
WAN Port	Ethernet (10/100Base-T)
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP
Software	
Web Browser	Microsoft Internet Explorer 6.0 or above
SDK	ActiveX control, C SDK
Security	Password protection : configured by the administrator
Operating	
Temperature	5 ~ 50 °C (40 ~ 122 °F)
Power	
Power Requirement	DC 12 V ±10%
Power Consumption	7.5 W
Physical	
Dimensions (WxHxD)	52 mm x 85.5 mm x 12 mm (2.05" x 3.37" x 0.47")
Weight	50 g (0.01 lb)



Module Housing

## ORDERING INFORMATION

Model Number	w/ Audio	w/o Audio	Wire To Board	Board To Board	w/ Casing
SEM-1110	V		V		
SEM-1110C	V		V		V
SEM-1111	V			V	
SEM-1120		V	V		
SEM-1120C		V	V		V
SEM-1121		V		V	