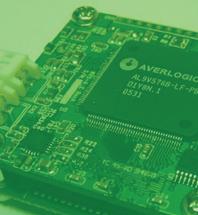# AMEDIA

NVS - 4000
Network Video Server Module

Introduction

Amedia's Network Video Server module streams real-time audio/video over the Internet, enables system designers to quickly develop a Network Video Server, or IP Camera by using MPEG-4 technology. It transmits the configurable MPEG-4 compressed video and audio streaming data with TCP/IP protocol through Ethernet, Power line or WiFi to remote receivers. Moreover, the compact size design, 42x42x25mm (LxWxH), makes the integration easily. "JUMP to Digital" is simple to analog camera manufacturers when integrating this module into their housing.

Application Scenario

NVS-4   NVS-4   NVS-4   NVS-4   NVS-4   NVS-4   NVS-4

Switch Hub

PC

Specifications

VIDEO	
Input	NTSC/PAL Composite signal input
Video Decoder	AverLogic AL240 video decoder

AUDIO	
Input	Support voice input by high-sensetive microphone or audio

SYSTEM	
CPU	StarSemi STR910x Series ARM-9 32-bits RISC
OS	Embedded Linux 2.4
Video compression	AverLogic AL9V576B MPEG Encoder
	MPEG-4, Simple Profile
	Real-Time Encode 30 Fps @ Full-D1
	Support dynamic I/P frame ratio compression
	Support video bit rate up to 4Mbps (64K ~ 4M bps)
	Support audio bit rate up to 384K bps
Audio compression	MPEG-1 @ Layer-2
Image Size (Resolution)	Full-D1, Half-D1, CIF, QCIF
Image Quality	Support settings for Brightness, Contrast, Saturation and Hue
Frame rate	30FPS(NTSC), 25FPS(PAL)@Full-D1/CIF/QCIF Max.

NETWORK	
Ethernet	RJ-45 connection to 10/100Mbit Ethernet networking
Protocol	TCP/IP, ICMP, HTTP, SMTP, FTP, NTP, UPnP
	RTP/RTSP (optional)

INTERFACE	
LED	Power-On, LAN act
Power	DC Jack for +12V input
RS-485	Pelco-D for PTZ application
Outputs	Video and Audio (Voice) by-pass output

SOFTWARE	
User management	Three level layer (Administrator / Power user / Guest), Password Authorization
Networking setting	Fixed IP, DHCP, PPPoE, network port number for HTTP and Streaming
Image setting	Encode type, Resolution, Bitrate, frame rate, IP ratio,
	Quality Parameters : brightness, contrast, saturation and hue
Voice setting	Enable/Disable, BitRate, Sampling Rate
Camera setting	Camera Name, Date/Time(NTP, Manual), Time Zone
Snapshot	Manually (supported by ActiveX)
Recording	Manually (supported by ActiveX)
Web server	Built-in Embedded web server
DDNS	Support Dyndns.com and PeanutHull
Software Integration	CGI commands set and IP-Finder
	4/9/16-ch central management software (optional)
Environment	Browser : IE 6.0 or above
	Operation system : Microsoft windows 2000, XP, Vista
	External rum-time system : DirectX 8.1 or higher

HARDWARE	
Comsumption	DC12V, 350mA
Operation	0°C ~ 70°C
Dimension	42 x 42 x 25 mm (L x W x H)