

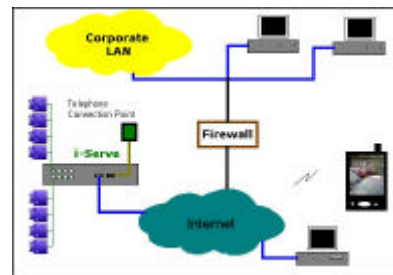
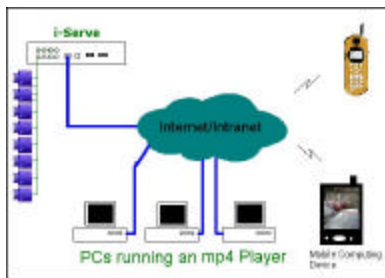
All in One Real Time MPEG4 Encoder, Video Streaming Server, FTP Server and Web Server

The i-Serve is a 'plug and go' device that provides a simple and cost effective method for streaming live and pre-recorded high quality video to desktop PCs, laptop PCs and mobile terminals through the Internet, mobile network and telephone line.



Features

- 8 CCTV inputs supporting PAL/NTSC/SECAM
- Removable 4MB to 1GB Compact Flash memory card storage
- Configuration and control of the device through a web browser
- Management interface to control number of users and aggregate bandwidth usage
- Video streaming server to control network bandwidth and deliver high quality video
- Caching server for static content
- Live and pre-recorded video accessible from Internet/Intranet, Mobile network and PSTN
- Remote upgrade
- Full motion video up to 30fps with streaming bandwidth from 10Kbps to 2Mbps
- Screen resolutions variable from 16X16 to 704X480
- Easily to configurable and deploy, low cost of ownership for a complete solution
- Stream through firewalls
- Standards compatible ISO14496-2 MPEG4 video encode and ISMA Profile 0 and 1
- Low power consumption



The i-Serve product combines all the essential applications necessary to stream video onto the Internet, corporate and community LANs and mobile networks. With its low cost for a complete solution, plug and go functionality, ease of administration and fast time to market, it is the ideal product for businesses, schools, retailers and content providers who want to deliver on line content.

MPEG4 ISO14496-2 Video Encoder

The encoder can encode CVBS video from 10Kbps to 2Mbps giving maximum flexibility to tailor the video quality to the available bandwidth. For mobile GPRS or PSTN networks encoder bit rates between 10Kbps to 46Kbps with frame rates up to 5 frames per second and QCIF screen resolutions are attainable. For LANs and high speed networks 2Mbps with frame rates up to 25 frames per second and screen resolutions of CIF are attainable.

Media Streaming Server

The media streaming server allows delivery in real time to PCs, PDAs and mobile handsets. Streaming is the only way to distribute live events such as concerts and sports events and as the media is streamed control over the distribution and copyright of the media is maintained. The server supports unicast and multicast sessions and transmits data onto the network at a controlled rate thereby reducing congestion on the network. The maximum number of simultaneous sessions and the available bandwidth for streaming can be controlled so as to avoid network congestion.

Web Server

The web server enables easy access to content be it from live cameras or cached content from the caching server.

FTP Server

The FTP server allows for easy control of the content on the caching server and for updating the web server pages.

Management Interface

The product is completely configurable through the web interface controlling the bandwidth requirements for video, maximum number of simultaneous users, video characteristics such as frame rate, bit rate, quality and video display size.

Firewall Protection

As a complete streaming solution the product may be located outside the firewall thereby provide the maximum protection to the corporate LAN. With is ease of configuration the product may be managed locally or remotely through the PSTN.

Software Applications

- HTTP server
- FTP server
- Real Time Media Streaming Server
- Adaptive Dynamic Quality of Service Control
- SNMP
- DHCP
- Web based configuration and management

Video Interface

- 8 CCTV inputs PAL/NTSC/SECAM, 750, 1Vpp

Video Encoder

- Fully compliant with MPEG-4 ISO/IEC 14496-2 Simple Visual Profile @ L1-3
- Frame Sizes - 176x144, 240X192, 352x288, 640X480, 704X480, Variable 16x16 to 704X480
- Encoder bit rate from 10Kbps to 2Mbps
- Frame rate from 1fps to 30fps
- Variable Group Of Pictures
- Variable/Fixed Frame rate/Quality

Performance

- 100 unicast MP4 file streaming sessions at 46Kbps
- 200 unicast live video streaming sessions at 46Kbps
- Multicast support

Standards

- ISMA Profile 0 and 1 compatible
- MP4 file format for storage and playback

Hardware

Electrical

- Input Volts: 6 to 12 volts DC
- Power consumption: 7 Watts

Mechanical

- Unit dimensions 300 X 150 X 60 mm
- Video ports connector BNC
- Modem port RJ11 4pin
- LAN RJ45
- Serial 9 way D Type
- Compact flash Type 2

Memory

- 64 MB Internal RAM
- Compact Flash card 4MB to 1GB

Communications

LAN

- 1 port 10/100 Mbps

WAN

- V.90 modem

Serial Ports

- 2 RS232C – 110bps to 250Kbps
- Infrared - IRDA 1.0

Protocols

- HTTP, FTP, ARP, DHCP, RTSP, RTP/RTCP, UDP, TCP/IP, PPP, CHAP, SNMP

Management Interface

- Control maximum number of simultaneous users
- Control maximum aggregate bandwidth usage