

**DIGITAL.
DISTRIBUTED.
NETWORKED.**



Product Overview

Part of **Versalis**[™], SmartSight's networked video solution, the S1500e series is designed for video monitoring and surveillance over IP networks. It delivers high-quality MPEG-4-based video over 10/100Base-T networks using cat 5, fiber optic, and wireless media. The servers can easily be extended over local and wide area networks (LANs and WANs) or the Internet using ISDN, PSTN, or xDSL routers. The S1500e series is built on open standards and is entirely software upgradeable to provide long-term investment protection.

The video servers come in three versions: a video encoder (S1500e) with one analog video input at 30 frames per second (fps); a video encoder (S1502e) with two analog video inputs at 15 fps; and a video decoder (S1500e-R) with one analog video output (NTSC/PAL).

The configuration and management of the S150Xe server are made easy with the user-friendly interface provided by the SmartSight nDVR[™] distributed management and storage software.

Key Features

- First professional CCTV solution allowing cost effective migration of analog CCTV cameras to IP networks
- All firmware upgradeable via the network (including the video codec)
- Selection of RTP/IP, UDP/IP, TCP/IP, or multicast IP network protocols
- Dual-stream MPEG-4-based video for each input
- When combined with nDVR, one stream can be used for high-resolution, low-frame-rate recording and the other for low-resolution, high-frame-rate viewing over the Internet
- Scalable resolution from 176 x 120 pixels to 704 x 480 pixels (NTSC format)
- RS-232 DB-9 serial port for programming or for integration to the access control system
- RS-422/485 serial port to support motorized domes and cameras
- 3 discrete inputs and 1 relay output
- Optional bidirectional audio interface supporting microphone or line-level input, and headphone or line-level output
- Video loss alarm
- SSL-based user authentication

Specifications

S1500e™ Series Ethernet Video Servers

Video

Video input	S1500e: 1 input, 1 Vpp into 75 ohms S1502e: 2 inputs, 1 Vpp into 75 ohms
Video output	S1500e-R: 1 output, 1 Vpp into 75 ohms
Connectors	BNC female
Compression	MPEG-4-based
Frame rate *	S1500e: 1-30 fps programmable (full motion) S1502e: 2 at 1-15 fps programmable (full motion)
Resolution	Scalable from 176 x 120 to 720 x 480 NTSC pixels (176 x 144 to 720 x 576 PAL pixels)
Bandwidth	Configurable between 30 Kbit/sec. and 4 Mbit/sec.
Video standard	Programmable NTSC or PAL

Serial Port

Electrical levels	Port 1: RS-232 (max. 230 kbps) Port 2: RS-422/485 2/4 wires (max. 230 kbps)
Connectors	Port 1: DB-9 Port 2: pluggable screw-terminal strip
Operating mode	Transparent serial port supporting any asynchronous serial protocol (specific protocol emulation may be supported on request)

General I/O

Alarm input	3 dry contact inputs
Alarm output	1 relay contact output (48V AC/DC at 100 mA max.)
Connector	Pluggable screw-terminal strip

Audio

Bidirectional	Input: -46 to -3 dBV into 1 kOhm Output: -46 to -3 dBV into 16 ohms min.
Connectors	0.14 in. (3.5 mm) input and output stereo jacks

Network

Interface	Ethernet 10/100Base-T
Connector	RJ-45 jack
Protocols	Transport: RTP/IP, UDP/IP, TCP/IP, or multicast IP Others: DNS and DHCP client
Security	SSL-based authentication

Power

Supply voltage	12V DC +/- 10%
Consumption	6W max. (500 mA max. at 12V DC)

Physical

Enclosure	Metal case with flange mount (black color)
Size	4.52L x 5.6W x 1.25H in. (115L x 142W x 32H mm)
Environmental	32°F to 122°F (0°C to 50°C)
Humidity	95% non condensing at 122°F (50°C)

Certification and Regulation

USA and Canada	FCC part 15 (class B), ICES-003
Europe	CE marked (EMC and safety)

Management

Configuration	Remote via nDVR, SConfigurator™, or Telnet Local via the serial port using any ASCII terminal
Typical connections	Multiple S150Xe to nDVR server
Bandwidth	Active management and error correction when using RTP/IP protocol

Software Upgrade

Flash memory for upgrade of video codec and application software over the network

Warranty

3-year limited warranty, covering parts and labor

Ordering

Part number	S1500e
Description	Ethernet transceiver with one video input

Part number	S1502e
Description	Ethernet transceiver with two video inputs

Part number	S1500e-R
Description	Ethernet transceiver with one video output

Options

Part number	S1500e-XT
Description	For extended temperature range (-22°F to 140°F / -30°C to 60°C)

Part number	Add -A to root part number
Description	Bidirectional audio

Part number	SRM10
Description	19-inch rack-mountable aluminum plate supporting up to 10 video servers

* The S150Xe offers two independent programmable streams per video input