AXIS 282/AXIS 282A
Bare Board Video Servers

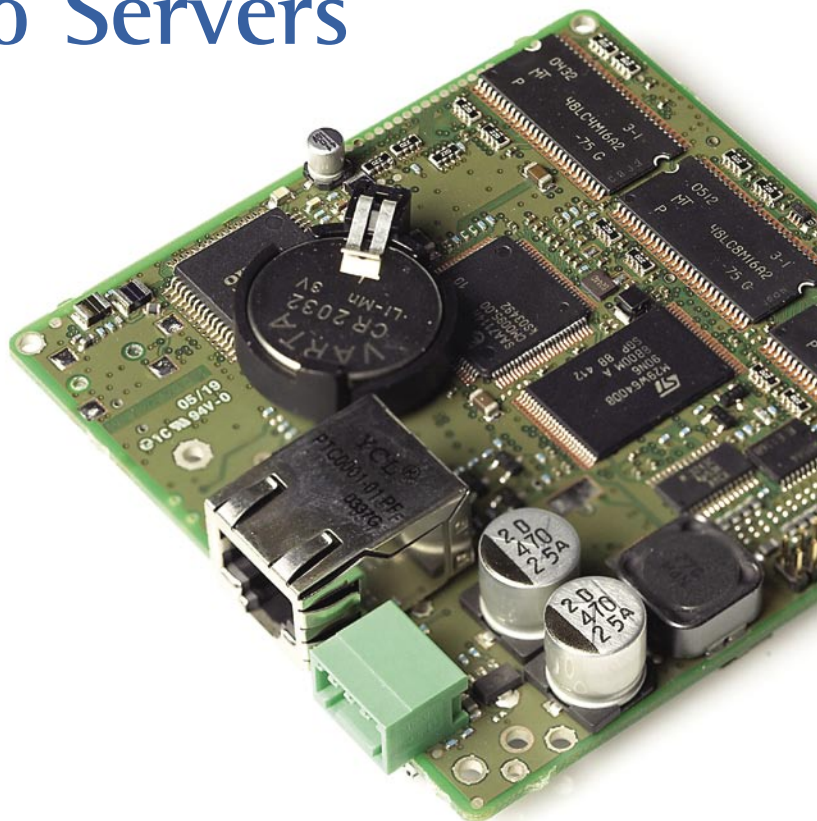*Small footprint unit for flexible integration*

AXIS 282/AXIS 282A Bare Board Video Servers from the market leader in network video, are designed to migrate your analog investments into high-performance IP solutions, ideal for surveillance and remote monitoring.

AXIS 282/AXIS 282A Bare Board Video Servers accommodate one analog video stream and is ideal to be built-in as an integrated part of a product or system.

System integration and network utilization are optimized with sophisticated functions such as built-in motion detection, SNMP and simultaneous Motion JPEG and MPEG-4 streams. Powerful event management tools include image upload, alarm notification and I/O control. Pan/tilt/zoom control is done over the serial port, enabling PTZ and dome camera handling over the network.

A complete set of security features, including multiple user access levels, HTTPS encryption and IP address filtering, ensure secure video handling and configuration.

AXIS 282A Bare Board Video Servers provide one audio stream in each direction, enabling users to not only see, but also listen in on an area and communicate requests or orders. In addition, the AXIS 282/AXIS 282A offer a de-interlace filter that improves image quality in the highest resolution (4CIF). This feature eliminates the motion blur problems caused by the analog PAL/NTSC video signal.
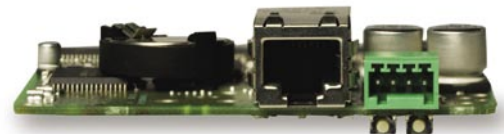
- High quality, de-interlaced video at 30/25 frames per second
- Simultaneous Motion JPEG and MPEG-4 streams in resolutions up to 768x576
- Video motion detection and pre/post-alarm buffer
- Support for PTZ and dome cameras
- HTTPS encryption for network security
- Integrated two-way audio support*

*AXIS 282A

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Make your network smarter

AXIS 282/AXIS 282A Bare Board Video Servers

Specifications

Models	AXIS 282 AXIS 282A: two-way audio	**Installation, management and maintenance**	User's manual and installation tool available at www.axis.com Web-based configuration Configuration backup and restore Firmware upgrades over HTTP or FTP, firmware available at www.axis.com
Video compression	Motion JPEG MPEG-4 Part 2 (ISO/IEC 14496-2), Profiles: ASP and SP		
Resolutions	Resolutions 4CIF, 2CIFExp, 2CIF, CIF, QCIF max 704x480 (NTSC) 768x576 (PAL) min 160x120 (NTSC) 176x144 (PAL)	**Video access from Web browser**	Camera live view, sequence tour capability for up to 20 PTZ presets or other Axis video sources, customizable HTML pages
Frame rate (NTSC/PAL)	Motion JPEG: Up to 30/25 fps at 4CIF MPEG-4: Up to 30/25 fps at 2CIF Up to 20/17 fps at 4CIF	**Minimum Web browsing requirements**	Pentium III CPU 500 MHz or higher, or equivalent AMD 128 MB RAM AGP graphic card, Direct Draw, 32 MB RAM Windows XP, 2000, NT4.0*, ME* or 98*, DirectX 9.0 or later Internet Explorer 5.x or later For other operating systems and browsers see www.axis.com/techsup *Motion JPEG only
Video streaming	Simultaneous Motion JPEG and MPEG-4 Controllable frame rate and bandwidth Constant and variable bit rate (MPEG-4)		
Image settings	Compression levels: 11 (Motion JPEG) / 23 (MPEG-4) Rotation: 90º, 180º, 270º Aspect ratio correction Color: color, black & white Overlay capabilities: time, date, text, image or privacy mask De-interlace filter	**System integration support**	Powerful API for software integration available at www.axis.com, including HTTP API, AXIS Media Control SDK, event trigger data in video stream, embedded scripting and access to serial port peripherals over HTTP/TCP. Watchdog secures continuous operation, can be monitored by other systems via event notification. Embedded operating system: Linux 2.4
Audio (AXIS 282A)	G.711 PCM 64kbit/s, G.726 ADPCM 32 or 24 kbit/s, full duplex, half duplex, simplex or audio off		
Security	Multiple user access levels with password protection, IP address filtering and HTTPS encryption	**Supported protocols**	HTTP, HTTPS, SSL/TLS*, TCP, SNMPv1/v2cv/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS. More information on protocol usage available at www.axis.com *This product includes software developed by the Open SSL Project for use in the Open SSL Toolkit.
Alarm and event management	Events triggered by built-in motion detection, external inputs or according to a schedule Image upload over FTP, email and HTTP Notification over TCP, email, HTTP and external outputs Pre- and post alarm buffer of 9 MB (approx. 4 min of CIF resolution video at 4 frames per second)		
Pan/Tilt/Zoom	A wide range of analog PTZ dome cameras are supported, free drivers available at www.axis.com 20 presets, Guard tour, PTZ control queue	**Applications (not included)**	AXIS Camera Station - Surveillance application for viewing, recording and archiving up to 25 cameras AXIS Camera Management – Efficient installation and management tool for Axis network video products AXIS Camera Explorer – Basic software for viewing and manual recording See www.axis.com/partner/adp_partners.htm for more software applications via partners

Connectors	34-pin header
	   1 analog composite or Y/C video input (NTSC/PAL autosensing)
	   RS-485 or RS-232 port
	   1 alarm input, 1 alarm output
	   power connection (input and output)
	   LED outputs
	   Audio input (282A): Microphone (54 mVpp) or Line in (8.0 Vpp), mono
	   Audio output (282A): Line out (2.6 Vpp), mono
	Terminal block:
	   1 alarm input, 1 alarm output
	   alternative power connection
	Ethernet 10BaseT/100BaseTX, RJ-45
		Included Accessories	MPEG-4 licenses (1 encoder, 1 decoder), MPEG-4 decoder (Windows)

		Accessories (not included)	AXIS 292 Network Video Decoder AXIS MPEG-4 Decoder 10 user license pack
Processors and memory	CPU: ETRAX 100LX 32bit Video processing and compression: ARTPEC-2 RAM: 32 MB Flash: 8 MB Battery backed up real-time clock	**Approvals**	AXIS 282/AXIS 282A is delivered as a component for the sole purpose of being integrated into a product or system. The foregoing implies an obligation on behalf of the integrator to obtain any approvals from authorities or governmental bodies that may be required for the lawful use of the finished product or system, which includes the AXIS 282/AXIS 282A as a component. Resale and use of the AXIS 282/AXIS 282A on a stand-alone basis is not allowed.
Power	8 - 20 V DC, max 8 W		
Operating conditions	5 - 50 ºC (41 - 122 ºF) Humidity 20 - 80% RH (non-condensing)	**Dimensions (HxWxD) and weight**	19 x 79 x 82 mm ($^3/_4$" x $3^1/_8$" x $3^1/_4$") 60 g ($2^1/_8$ oz)

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