

AXIS 88 Developer Board AXIS 89 Device Server

Flexible and secure industry device server platforms

*AXIS 88 Developer Board
and AXIS 89 Device Server
are the developer enabler and
deployment platform for
AXIS ETRAX FS System-on-Chip.
The ideal complete deployment
products for networking devices
even in rugged environments.*



HARDWARE ACCELERATED ENCRYPTION >

Hardware accelerated wire-speed cryptography with supported crypto algorithms AES, DES and 3DES and hashing algorithms SHA-1 and MD-5 to build secure products.

STORAGE CAPABILITIES >

Connect additional flash memory using the MMC slot (Multi Media Card) or use the 28 MB already built-in for your application use.

RISC PROCESSOR >

200 MIPS 32-bit RISC processor with low power consumption.

FLEXIBLE INTERFACE >

Versatile and flexible interface possibilities to fit any communication need, e.g. dual 100 Mbit/s Ethernet, serial ports, USB and digital I/O ports.

TECHNICAL SPECIFICATIONS – AXIS 88 DEVELOPER BOARD/AXIS 89 DEVICE SERVER

Models	AXIS 88 Developer Board AXIS 89 Device Server																																														
Ethernet network ports	Dual 10/100 Mbit/s Ethernet ports																																														
Serial connection	Three RS-232 serial ports. Support RXD, TXD, RTS, CTS, DSR, DTR, RI and CD at 230 kBaud (maximum speed supported by transceiver chips)																																														
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Terminal block	One terminal block configurable as RS-232 or RS-485/422. Supports baud rates up to 1.85 MBaud. Power can be supplied to the AXIS 88 Developer Board and the AXIS 89 Device Server through the terminal block, eliminating the need for an external power supply. Four digital I/O ports. All 72 I/O pins of the AXIS ETRAX FS are available on I/O connectors (on PCB) allowing access to the flexible I/O processor																																														
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USB 1.1 port	Compliant USB 1.1 host port for connection to web cameras, barcode scanners, Bluetooth, wireless adapter, etc. The port can provide +5.0 V DC, 500 mA to the device																																														
System/application management and recovery	Linux system and applications can be uploaded remotely to the device server over the network and stored in flash memory. Complete system recovery is made easy using Axis supplied software utility.																																														
Hardware	CPU: 200 MIPS, 32 bit RISC processor (AXIS ETRAX FS) Flash memory: 32 MB flash (28 MB available for applications in default configuration) RAM: 32 MB																																														
Additional memory	Connect external flash memory using the MMC slot (Multi Media Card)																																														
Hardware encryption	Hardware accelerated wire-speed cryptography to build secure products Supported crypto algorithms are AES, DES and 3DES Supported hashing algorithms are SHA-1 and MD-5 Throughput 200 – 3000 Mbit/s																																														
Power supply	Power: 8-20 V DC on terminal block, via external power supply AXIS PS-K 9 V DC / 1 A (included) Power consumption typically 2 W at 8-20 V DC																																														
Operating conditions	5 – 50 °C Humidity 8 – 80% RHG, non-condensing																																														
Temperature sensor	The temperature sensor provides reliable temperature readouts at a resolution of 0.25 °C in the interval 5 – 50 °C																																														
Real time clock	Real time clock with battery backup																																														
Product warranty	1 year																																														
Casing*	A stable aluminum casing that can be conveniently wall mounted (mounting brackets are included)																																														
Approvals	Immunity standards: EN 55024, EN 61000-6-1, EN 61000-6-2 Emission Standards: EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class B, VCCI Class B, C-Tick AS/NZS CISPR22, ICES-003 Class B Safety: EN 60950-1, UL (US version), cUL (Canadian version) <i>The approvals are made with the aluminum casing and cannot be guaranteed when the PCB is not mounted in a similar box*</i>																																														
Dimensions (HxWxD) and weight	AXIS 88 Developer Board: 17 x 124 x 104 mm (0.7" x 4.9" x 4.1"), 130 g (0.29 lbs) AXIS 89 Device Server: 41 x 140 x 118 mm (1.6" x 5.5" x 4.6"), 445 g (1.0 lbs)																																														

* Applies to the AXIS 89 Device Server only

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