AXIS 9010
Bluetooth™ Access Point
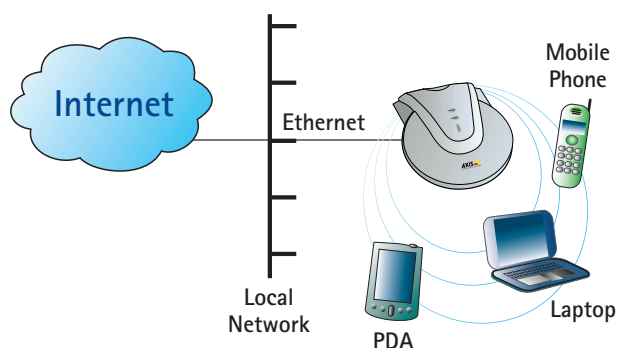
Mobile Access by Axis

The *Bluetooth* Access Point from Axis is part of a family of network access solutions that create Local Mobile Networks (LMN) of high-speed wireless connectivity. The AXIS 9010 provides a communications link to local networks and the Internet for mobile devices equipped with *Bluetooth* wireless technology. Axis offers solutions that can scale up from stand-alone network access devices to larger, more advanced systems for creating mobile networks and services.

Instant, Easy Connectivity
The AXIS 9010 allows mobile users to connect without delay when they are located in a defined Local Mobile Network area.

Supports a Wide Range of Devices
The *Bluetooth* Access Points supports devices equipped with *Bluetooth* wireless technology, including PDAs, mobile phones, laptop computers, Web-pads and emerging application specific devices.

Low-Cost, High-Speed Network Access
Bluetooth operates at unlicensed radio frequencies enabling wireless communications without the cost of going through a mobile carrier.

A Secure System, Easy to Install and Manage
The AXIS 9010 incorporates built-in intelligence for providing security, quick installation and configuration management.

Technical Specification - AXIS 9010 *Bluetooth* Access Point

General Overview

- Point to multipoint, high-power *Bluetooth* wireless connectivity
- Ethernet/Fast Ethernet interface for access to the LAN and the Internet
- Support for Dynamic Host Configuration Protocol (DHCP) for server and client IP address management
- Built-in Web server for remote configuration and management
- Device management using Simple Network Management Protocol (SNMP) version 1 and 3
- Authentication, authorization and accounting options using the RADIUS protocol
- Support for WAP over *Bluetooth*
- Embedded Linux operating system for maximum reliability
- High performance 100 MIPS RISC processor

Bluetooth Specification

- Class 1 radio configuration
- Adjustable output power
- Internal antenna
- RF specifications
  - Frequency range: 2.402 to 2.480 GHz
  - Double sided IF bandwidth: 1 MHz
- Profile
  - LAN Access Profile
- Clients
  - All clients with support for *Bluetooth* LAN Access Profile e.g. mobile phones, Pocket-PCs, PDAs and laptops
- Protocol stack
  - Baseband Link Manager, Link Controller and Host Controller Interface
  - Axis developed stack for SDP, L2CAP, RFCOMM

Supported Protocols

- TCP/IP, HTTP, FTP, ARP, DHCP, PPP, PAP, RADIUS, SNMP

IP Address Assignment

- Server IP address assignment
  - DHCP or proprietary arp-ping method
- Client IP address assignment
  - DHCP, RADIUS, manually specified range or masquerading

Built-in Web Server

- Configuration Wizard
- System information on *Bluetooth* clients
- Status report and support information
- Online context-sensitive help

RADIUS

- Robust authentication, authorization and accounting options to local or remote servers
- Conforms to RFC 2865 and 2866
- TCP/IP address assignment

SNMP Management

- SNMP version 1 and 3
- Encrypted data transfers with SNMP v3
- Support for MIB-II and Axis private MIB
- Monitor devices with industry standard management tools

Software Updates

- Flash memory for easy software updates
- Remote upgrades over the network using FTP or AXIS ThinWizard
- Automated update of multiple units using AXIS ThinWizard

Network

- RJ45 connector (Category 5 twisted pair cable)
- 10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing

Hardware

- Axis ETRAX 100LX, 32 bit RISC, 100 MIPS CPU
- 16 Mbyte DRAM, 2 Mbyte Flash

Power Supply

- External power supply: maximum 400 mA at 12 VDC
- Internal power supply: 3.3 V
- Power consumption: 2.5 W

Dimensions / Weight

- Height: 50 mm
- Width: 143 mm
- Length: 178 mm
- Weight: 295 grams
- Operating temperature range: +5 to +40°C, 20-80% RHG non condensing humidity
- Indoor use only

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