

# Bluetooth™ Access Point

*Axis Communications is entering the wireless communications market. With a unique expertise in network connectivity and strong technology partnerships, Axis is a leader in the converging world of wireless and wired networks.*

Axis is creating new possibilities for wireless broadband services for users with mobile devices, by offering solutions for local mobile systems. Local mobile systems in this context means access points based on unlicensed radio technologies — such as *Bluetooth* wireless technology, IEEE 802.11 and HiperLAN/2, and a system platform incorporating system intelligence for security, mobility and access control.

The dramatic growth of wireless broadband services based on unlicensed radio technologies is driven by three fundamental industry trends:

- ▶ Sustained high growth rate for mobile devices — mobile/cell phones, PDAs and laptop computers, due to decreasing investment and usage costs as well as developments in functionality, battery life length and size.
- ▶ Unlicensed radio technologies are being deployed for short distance wireless voice and data communication, such as *Bluetooth* wireless technology.
- ▶ Extensive roll out of broadband access to Internet, for example xDSL, cable modem and Ethernet.

## Product Description

The *Bluetooth* Access Point from Axis is a wireless access point based on *Bluetooth* wireless technology supporting both telephony and data services. Like other Axis products, it is based on the latest version of our integrated system-on-a-chip, ETRAX, which is optimized for Internet applications and features embedded Linux. The *Bluetooth* Access Point will be developed and expanded into a product family encompassing other wireless technologies.



## Technical Data

### Network Systems supported

- Systems running TCP/IP
- 10/100 Ethernet on RJ45

### Performance

- 723 kbps down-link, 57 kbps up-link, or
- 434 kbps down-link, 434 kbps up-link

### Bluetooth LAN Access Profile

- Up to 7 simultaneous data users

### Bluetooth Cordless Telephony Profile

- Up to 3 simultaneous voice users

### Supported Clients

- All clients with support for *Bluetooth* Cordless Telephony Profile or LAN Access Profile

### Voice over IP Gateway

- SIP user agent (rfc 2543)
- G711, G723 and G729 codecs

### RF Specification

- Unlicensed 2.4 GHz frequency band
- RX Sensitivity -90 dbm
- TX Power 20 dbm

### Hardware

- 100 MIPS RISC processor

## ► At the office

Upon entering the office, you have immediate wireless access via your laptop to all applications on the company's Intranet, email, Internet browsing, printing and file access. The calendar and address book software in your PDA will be automatically synchronized. Using your mobile/cell phone with *Bluetooth* wireless technology, you can make free internal calls and inexpensive external calls, using the company's IP telephony service, from anywhere within the office.

## ► At the airport

When you enter the airport, your mobile device is identified by the local mobile operator—which could be the airline, lounge or airport administration center, and the check-in gate for your departing flight is presented on your display. You may also pull up additional information such as estimated check-in waiting time, whether the flight is on time or delayed, and arrival time to your destination. If you wish, special duty-free offers in combination with product advertisements could be presented on the display. Furthermore, a broadband connection for accessing the Internet and email access is available, as well as phone calls via the airport's phone network at a considerably lower charge than the regular mobile/cell phone system. When you arrive at your destination, the baggage belt number will be presented on the display. While you wait for your baggage, you can book a taxi, hotel accommodation or any other airport related service using your mobile device.

## ► In the hotel

As you enter your room, you have instant wireless broadband access to the Internet and email on your laptop. From your mobile/cell phone you can make business calls at a considerably lower charge than the hotel's regular phone service. In the conference room, you have access to all your files on the company's intranet. While waiting for your potential customer in the restaurant, you look up the latest sales statistics in order to be fully up to date. When you check out, the bill is confirmed by a single click on the check-out button and you can bypass waiting in line to check out and catch the pre-ordered taxi.

## ► At home

Entering your home - your mobile phone becomes an IP-phone, using Voice over IP, providing cordless telephony within your home as well as inexpensive external phone calls. Your laptop is always connected to the Internet—anywhere you are within your home. Through an intuitive Web interface you are able to control your household appliances with *Bluetooth* wireless technology.

## ► While shopping

As you enter the retail center, your mobile device downloads a program that supports you in all the aspects of shopping. The program can assist you in finding that special item, whether it is available in stock, and whether or not the retail center is offering a promotional discount on your item of choice. The system automatically transmits all your purchases to the check-out counter for fast and easy payment.

## About Axis Communications

**Axis Communications** is a leader in network connectivity and emerging wireless Internet-based services. The company is taking an active role in driving technology development and standardization as part of the steering committee in the Microsoft Universal Plug and Play forum, as a member in SUN's Jini forum, and as associate member of the *Bluetooth* Special Interest Group. Other initiatives include development and integration of embedded Linux into Axis products as well as development and release under GPL of a *Bluetooth* stack for Linux. For more information, see <http://developer.axis.com>

Axis products are sold in more than 60 countries worldwide through a network of distributors, value-added resellers and original equipment manufacturers. Founded in 1984, Axis Communications employs more than 350 people worldwide, and is based in Lund, Sweden with 17 offices throughout North America, Europe and Asia.

### Corporate Headquarters

Axis Communications AB  
Scheelevägen 34  
S-223 63 Lund, Sweden  
Phone: +46 46 272 18 00  
+46 46 270 18 23  
Fax: +46 46 13 61 30

### U.S. Headquarters

Axis Communications, Inc  
100 Apollo Drive  
Chelmsford, MA 01824, USA  
Phone: +1 (978) 614 2000  
+1 (650) 903 2221  
Fax: +1 (978) 614 2100

### Asia-Pacific

Axis Communications  
Level 28, Central Plaza  
34 Jalan Sultan Ismail  
50250 Kuala Lumpur, Malaysia  
Phone: +60 3 2474-582  
Fax: +60 3 2474-585

E-mail: [info-mobile@axis.com](mailto:info-mobile@axis.com)

[www.axis.com](http://www.axis.com)