Technical Specification AXIS 9010

Bluetooth

- Based on the ALPS Bluetooth solution.
  - RF output power class 2.
  - Multi point operation.
- Internal antenna for optimal size and performance.
- RF specifications
  - Frequency range 2.402 to 2.480 GHz
  - Double sided IF bandwidth 1 MHz
- Receiver performance
  - Sensitivity (Pin=-70dBm) max 0.1% BER
  - Max input level (Pin=-20dBm) max 0.1% BER
  - C/I 1MHz (C=-60dBm) max 4dB
- Transmitter performance
  - Output power +10 dBm
  - Frequency deviation 140 to 175kHz
  - Carrier drift (1 slot, 366us) max +/-25kHz
  - Carrier drift (3 slots, 1598us) max +/-40kHz
  - Carrier drift (5 slots, 2862us) max +/-40kHz
- Timing performance
  - Channel switching time 150 us
- Data rate
  - Asymetric 460kb/s Downlink
57kb/s Uplink
  - Symetric 434kb/s Downlink
434kb/s Uplink

- Clients
  - All clients with support for Bluetooth LAN Access Profile e.g. PC, PDA and Laptops for data communication.

Hardware

- Axis ETRAX 100, 32 bit RISC, 100 MIPS CPU
- 8 Mbyte DRAM
- 2 Mbyte Flash ROM

Network

- RJ45 twisted pair cable
- 10baseT Ethernet or 100baseTX Fast Ethernet, auto-sensing.

Supported Protocols

- TCP/IP
- HTTP
- FTP
- ARP
- DHCP

- PPP

IP address

- Server IP address assignment
  - DHCP or proprietary arp-ping method.
- Client IP address assignment
  - Manually, DHCP, range or masquerading.

SW updates

- Internal flash memory allows simple, central and remote software updates over the network using FTP.

Built-in web server

- Configuration
  - Access point IP address setting
  - Client IP address setting
  - Radius control setting
  - Time setting either manually or through NTP server.
- Management
  - Bluetooth monitor, active or passive devices
  - System log file
- Support information

Radius

- Authentication and accounting protocol according to RFC 2865 and 2866.
- Compatible with the Cistron radius server and derivates.