

HM410dp

ADSL2+ Home Gateway



The ADSL2+ Home Gateway, HM410dp, is a multi service platform at customer premises. It plays an important role as a powerful service provisioning channel right at the very heart of the digital home.

Triple Play at Reliable High Speed

The HM410dp provides operators with a reliable and effective gateway opening up for a wide range of broadband services including fast Internet, Voice over IP and IPTV (Triple Play). These Triple Play services can be delivered from one or several Service Providers.

The HM410dp provides both the raw bandwidth ADSL2+ as well as additional advanced features to utilize the technology to its fullest potential.

ADSL Features

The HM410dp supports the latest available ADSL standards, both ADSL2/2+ as well as classic ADSL. By introducing many new ADSL2/2+ features the HM410dp offers Access and Service Providers to better utilize and to control the DSL line.

Quality of Service

Quality of Service (QoS) is a key aspect of running a successful Triple Play business. The Ericsson QoS solution is a multi-PVC solution based on ATM Quality of Service that makes extensive use of well-known and field-proven protocols. For further information, refer to the brochure "Technical Solution Brief - QoS Solutions for Triple Play" found in the Ericsson Product Catalog.

Advanced Networking

The HM410dp is very flexible in terms of networking features and can be configured to act either as a bridge or a router, making it easy to integrate in most networks. The HM410dp has DHCP client and server functionality as well as NAT and a stateful firewall. Additionally it includes a fully featured SIP ALG and IGMP Proxy to enable voice and video devices reside on the home network.

End-to-end Solution

The HM410dp has been specifically designed to interoperate on all levels with the Ericsson Ethernet DSL Access System (EDA). Among the features that have been implemented and tested are the routed triple play scenario with use of DHCP option 121 and the new ADSL2/2+ standards.

HM410dp TECHNICAL SPECIFICATIONS

INTERFACES

WAN. Standard RJ11 connector for DSL.

LAN. 4-port Ethernet switch: 10/100BaseT MDI (RJ45 connector).

DSL STANDARDS

ANSI T1.413 issue 2.

ITU-T G.992.1 Annex A, B* (G.dmt).

ITU-T G.992.3 Annex A, B*, L, M (ADSL2).

ITU-T G.992.5 Annex A, B*, M (ADSL2+).

ITU-T G994.1.

ITU-T G997.1.

ETSI ETR-328.

Support for Dying Gasp.

ADSL2/2+ FEATURES

High DS speed (24M, Annex A).

Reach Extended (Annex L).

High US speed (3M, Annex M).

Loop Diagnostics (LD).

Seamless Rate Adaptation (DS SRA).

ATM

ATM cells over AAL5.

Up to 8 concurrent PVCs.

Traffic shaping per PVC.

VPI range 0-255. VCI range 32-65535.

OAM F5.

UBR, UBR+, CBR, VBR-nrt and VBR-rt.

Encapsulation

Ethernet over ATM (RFC 2684 bridged mode).

IP over ATM (RFC 2684 routed mode).

Point-to-Point Protocol over Ethernet (RFC 2516).

Point-to-Point Protocol over ATM (RFC 2364)

MAC Encapsulated Routing (MER).

NETWORKING FEATURES

Bridging.

IEEE 802.1d Transparent Bridging and Spanning Tree Protocol.

Transparent VLAN Bridging.

IGMP v1, v2 Snooping.

Routing.

TCP/IP with RIPv1, RIPv2 and static IP routing.

IGMP v1, v2 Proxy.

IP Services.

Network Address Translation (RFC 1631).

ALG support (FTP, AIM, Netmeeting, SIP, ...).

DHCP Client and Server.

Support for DHCP Option 33, Static Routes (RFC 2132).

Support for DHCP Option 121, Classless Static Route (RFC 3442).

Support for DHCP Option 60, Vendor Class Identifier (RFC 2132).

SECURITY

Firewall with Stateful Packet Filtering.

IPSec, L2TP and PPTP pass through.

PAP and CHAP for PPP user authentication.

CONFIGURATION AND MANAGEMENT

Web GUI.

LAN Management via Telnet.

LAN Configuration files.

SW download via Web-GUI (HTTP).

PERFORMANCE AND RELIABILITY

ADSL2+ speed DS/US up to 24/1.0 Mbps (Annex A), 22/3.0 Mbps (Annex M).

MTBF. More than 23 years.

POWER SUPPLY

Power supply through external power adaptor. 12 VAC 1200mA.

Power consumption less than 3 Watts.

VISUAL STATUS INDICATORS

LED indicators for Power, Status, LANx4 and ADSL.

REGULATORY APPROVALS

USA. FCC Part 15 subpart B class B & TIA/EIA/IS-968 (FCC Part 68) and UL 60950-1.

Canada. CSA C22.2 No.60950-1-03, ICES-003 class B and CS-03.

European Community. Compliant to the following EU directives for CE mark:

73/23/EEC, Low Voltage Directive (LVD).

89/336/EEC, Electromagnetic Compatibility

Directive.

1999/5/EC, Radio Equipment and

Telecommunications Terminal Directive (R&TTE).

ETSI EN 300386:V1.3.1, EN 55024:1998+A1

and EN 60950-1.

International: IEC 60950-1.

DIMENSIONS

HxWxD. 45 x 160 x 212 mm.

Weight: 0.5 kg unpacked, 1.9 kg packed with kit.

ENVIRONMENTAL

Operational temperature. 0°C to +45°C

Operational humidity. 5%-85% RH non-condensing.

*) Annex B on request.

Subject to alteration without prior notice.