

MY2441, MY2484

Voice over IP IAD, ADSL



Ideal solution for integrating high-quality voice and data services over IP networks for SOHO and SME customers at superior cost savings.

Compatible and interoperable with most standardbased ZDSLAMs and SoftSwitches.

Mixed voice ports configuration allows Operators to optimise their offer while guaranteeing the best suited solution to their customers.

OVERVIEW

The Mysui-SIP Family of Integrated Access Devices (IADs) enable Network Operators and ISPs to effectively deploy Next Generation Networks based on Voice over IP technology offering to small and medium businesses integrated broadband data and carrier-class voice services over a single copper pair on ADSL.

The Mysui-SIP Family is based on the Session Initiation Protocol (SIP) 2.0 and supports up to eight VoIP calls (compressed or uncompressed) either on POTS ports, on ISDN BRI ports and on a mix of them, including proper interworking with legacy analogue fax machines.

Mysui's IAD SIP family not only offers, among the firsts on the market, support for ISDN BRIs, but also allows both POTS and ISDN connectivity on the same CPE, thus enabling the Network Operator the highest flexibility in its service mix offer to the end-user together with investments optimisation in its NGN roll-out.

Mysui's extensive experience on "traditional" voice networks (POTS and ISDN) ensures excellent reliability, efficiency and effectiveness in supporting an extensive set of Supplementary Services and the shortest time-to-market in providing customised developments to seamlessly add new services to the end-user.

FEATURES AT A GLANCE

ADSL line interface;

Different models provide support for POTS, ISDN BRI or a mix of both with up to 8 G.711 or G.729 VoIP calls;

Toll-quality voice services;

G.711 (A-law, m-law), G.729;

Compatibility with analogue and ISDN user Mysui equipment including fax machines;

Voice over IP SIP 2.0 based and T.38 support;

Remote management and diagnostic features;

10/100Base-T Ethernet interface (optional additional Ethernet interface);

Routing and bridging functionalities with NAT/NAPT;

DNS and DHCP server/client functionalities;

VPN and firewall capability;

Optional power supply back-up unit for uninterruptible service;

EFFICIENT INTEGRATION

The Mysui-SIP IADs guarantee seamless installation and the highest degree of compatibility with every type and brand of legacy telephony devices, including fax machines, phone sets, answering machines, and modems.

An optional fully managed back up battery unit is also available for service continuity in case of mains faults.

FULL IP SERVICES

The Mysui-SIP Family provides routing and bridging capabilities with NAPT, DNS and DHCP services also offering firewall functionality to prevent unauthorized hosts from externally accessing the internal LAN.

The Starvoice supports a variety of VPNs to protect data exchanged over a public IP network among branch offices and the corporate headquarters, also allowing usage of low-cost connections to the Internet without sacrificing the security that private leased lines provide.

REMOTE MAINTENANCE

MY2441, MY2484 also offer a number of remote maintenance features, including diagnostics for user ports.

IP FUNCTIONS

- IP Routing
- RIPv1, RIPv2, BGP
- Enhanced Network Address and Port Translation (NAPT) engine, with H.323 and FTP ALGS, VPN pass through
- DHCP Server/Client, DHCP Learning
- Multicast traffic support
- Extended Access Lists
- Stateful Packet Inspection for Denial of Service attacks
- IP Services
- DNS Server/Forwarder
- VPN: GRE, IPinIP, PPTP server/client
- ICMP, Telnet, TFTP
- Layer 3 QoS according to DiffServ model (RFC2474, RFC2475)
- Priority based queuing (Absolute Priority, WFQ, RED)
- Extensive monitoring, tracing and troubleshooting facilities

ETHERNET SERVICES

- MAC Bridging (802.1D)
- VLANs (802.1Q and 802.1p)
- Priority based queuing

ACCESS PROTOCOLS

- PPP over Ethernet (RFC2516)
- PPP over ATM (RFC2364)
- Multiprotocol over ATM (RFC2684) (bridged and routed traffic)

ATM SERVICES

- Up to 10 VCCs
- Class of Services
- CBR
- VBR-rt
- UBR
- Voice and Data packets over different VCCs (VC bundling)
- Selective CLP marking
- F4/F5 OAM cells, AIS and RDI

AUTHENTICATION

- Client side PAP/CHAP/MS-CHAPv2 authentication
- User, administrator and superadmin access levels to configuration facilities

MANAGEMENT & CONFIGURATION

- SNMPv1, SNMPv2c Agents
- Embedded web server
- Embedded telnet server
- Extensive Command line interface (local and remote via telnet)
- Embedded file system (configuration and firmware upgrade)
- Windows® based wizard for configuration and firmware download

ENHANCED DATA OPTIONS

- Additional 10T Ethernet interface
- IPSEC hw encryption module

MODELS

- MY2441, 4 POTS and 2 isdn bri accesses; up to four calls
- MY2484, 4 POTS and 2 isdn bri accesses; up to eight calls

ENVIRONMENTAL RANGE

Operating temperature: 0° to 40°C (32° to 104°F)
Non Operating temperature: -35° to 70°C (-31° to 158°F)
Operating humidity: 0 to 95% non condensing

POWER

- External Class II AC/DC network adapter (optional)
- Input voltage from 90 to 250 Vac.
- Power backup unit (PBU): small footprint, plastic case with 281x215x68 mm

INTERFACES

- ADSL interface
- POTS ports (4)
- ISDN-BRI ports (2)
- Ethernet 10/100bT
- RS232 serial console interface (all models)

LED INDICATORS

- Power
- Ready
- Emergency
- ADSL Line
- ADSL Sync
- POTS
- ISDN

PHYSICAL INTERFACES

- POTS terminated with RJ-11 and spring connectors
- BRI interfaces terminated with RJ-45
- Ethernet 10BaseT interface terminated with a RJ-45
- MiniDIN 8P (console)

ADSL NETWORK INTERFACE

- ITU-T G.992.1 (g.dmt)
- ITU-T G.992.2 (g.lite)
- Upstream rate up to 832 Kbps,
- Downstream up to 8192 Kbps

VOICE INTERFACES

- POTS
- Compliant to Q.552 requirements
- Port impedance: real 600Ω or complex Euro values
- Low distortion ringing voltages
- Diagnostic features
- ISDN BRI
- Fully compliant to layer 1 standards (ETSI ETS 300 012)

VOICE PROCESSING

- Voice Codes
- ITU-T G.711 (A-law, m-law)
- ITU-T G.729a (option)
- Transparent pass-through
- Up to four compressed (G.729) or uncompressed (G.711) voice calls
- ITU-T G.165/G.168 echo cancellation
- Voice Activity Detection and Comfort Noise Generation
- RTP/RTCP (RFC 1889)

FAX AND MODEM SUPPORT

- Automatic G.711 Fax and Modem bypass
- T.38 fax relay

AUTHENTICATION

Basic and Digest schemes (RFC2617)

SIGNALLING

- Euro ISDN EDSS-1 / ETSI BRI/NET3
- ETS 300 125 (ITU-T Q.921)
- ETS 300 102-1 (ITU-T Q.931)
- Q-SIG (PSS-1)
- SIP 2.0 according to RFC 3261 (TCP or UDP transport)
- En-block and Overlap sending
- ISDN speech, audio and data (Fax Gr4, UDI 64, RDI 64)
- DTMF detection and carrying (RFC2833)
- Local Generation of:
 - Dial tones
 - Ring back tones (180 Ringing reply)
 - Call Waiting tone
 - Busy tone
 - Fast Busy tone

SUPPLEMENTARY SERVICES¹

Locally managed² or Softswitch-based

- Call hold
- Consultation call
- Call waiting
- Call Forwarding
- Caller Identity Presentation (CLIP) (DTMF and FSK based)
- Identity restriction
- Call transfer
- 3party conference

POWER OPTIONS

- ACDC adapter
- Continuous power supply CPS series

¹ Supplementary Services management is not yet fully standardised by international bodies and their implementation could be subject to revisions

² Depending on the specific service, a common implementation between the IAD and the Softswitch needs to be agreed

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