

**SOHO**  
**Access Gateway**



**to enable the future**

# SOHO Access Gateway - The Most Complete Offer

## Introduction

Telsey's Access Gateways deliver multiple IP-based broadband services to homes and small/home offices (SOHO) over high speed, always-on broadband connection. Our devices enable the delivery of bundled video, voice and data services to customers' homes and offices bringing notable benefits to both service providers and end users. Service Providers rapidly deliver original services such as fast Internet, Video on Demand and video streaming to end-users through our Access Gateways. End users access groundbreaking services offered by their providers through a modern device, which interconnects all peripherals, computers and telephones using a single broadband connection throughout the home and the office.

Telsey's continuous efforts to align its solutions with the ultimate applicable technology ensures Service Providers to profit from state-of-the-art Access Gateways and to offer them to their valued customers. Our products are designed at competitive price targets that enable service providers to make profitable business while delivering innovative services at an affordable cost to end-users. Furthermore, our decennial know-how in the design and production of such devices translates into an excellent reliability and superior service to our customers. The latest version of our access gateways has been designed with a new slick look, which easily fits in any domestic/business environment.

**Telsey's complete and unique product family is comprised of gateways for both residential and SOHO/SME users.**

\*\* This brochure is related to Telsey SOHO Access Gateways. Please, refer to Residential Access Gateway brochure about Telsey product portfolio for residential users.



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### SOHO/SME Integrated Access Devices for Multi IP based Services

Telsey's **Soho Access Gateways** enable **Broadband Service Providers (BSPs)** to easily deploy multiple IP based services (data, voice and video) to **Small Office/Home Office (SOHO)** and **Small Medium Enterprise (SME)** customers.



Designed in close contact with major triple player broadband operators, its features meet both Broadband Service Providers and SOHO customers' needs. Broadband Service Providers can enhance their Return On Investment through our Soho Gateway family as it gives SOHO customers access to always on broadband network services. SOHO customers can consequently increase and accelerate their business transactions in a secure environment. Telsey's SOHO devices provide, at an attractive price solution, powerful technology combining superior routing, firewalling, IP VPNs functions and a VoIP engine.

### Flexible Broadband interfaces

Our SOHO Integrated Access Devices support the most generic and widespread 10/100 ETTH BaseT WAN interfaces. Optical and xDSL uplinks have also been pre-disposed to provide connectivity to other types of networks.

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### Secure Data Services

Telsey's SOHO gateways have four 10/100 Mbits Base ports and one WAN uplink port. End users can connect their peripherals and other equipment such as personal computers, servers or Set Top Boxes to any of the four downlink ports. Customers can connect a hub or switch to a downlink port and extend to more than four the number of devices connected to the broadband network.

**Data security** is a must for SOHO customers using always on broadband services. Our SOHO devices ensure data security due to a very **powerful firewall** which features include:

- > **Network Address Translation (NAT)**
- > **Access Control List**
- > **Packet filtering**
- > **Application content filtering**
- > **Stateful inspection.**

Such firewall is able to recognize **Denial of Services** attacks ("SYN flooding", "Ping of Death" as examples) and prevents **external unauthorised network accesses**, making our product a dependable and secure solution.

Its **flexibility allows "De Militarised Zone" (DMZ)** support, enabling SOHO customers to open their private network servers to the public Internet (for examples for Web, e-mail, and FTP services) while ensuring that external intruders from Internet do not get access to very confidential company data.



**IP Virtual Private Networks (VPNs)** are emerging as the most flexible, secure and cost effective solution for inter-connecting company sites, home office users, business partners and customers. Our SOHO gateways support IP VPN with Authentication, Key Management, Encryption, IP segmentation and reassembling capabilities and assure secure communications between two private networks over the public Internet. The integration of IP VPN features with the firewall functionalities makes our SOHO devices a complete solution to deliver Internet security.

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Our SOHO gateways provide IGMP snooping which ensure that the delivery of high quality, high bandwidth video streaming and video conferencing applications do not affect other IP services (voice and data).

Telsey's SOHO devices support VLAN switching (through G.802.1q tagging) and thus provide traffic separation and security and isolate broadcast-domain. In addition, G802.1p queuing and TOS/COS management permit an efficient IP precedence support towards bundled services delivery thus ensuring higher Quality of Service.

### Integrated VoIP engine

Our SOHO Access Gateways come in different versions in order to make available a mix of telephone interfaces:

- 4 FXS ports, up to 4 VoIP calls
- 2 ISDN BRI ports, up to 4 VoIP calls
- 2 FXS ports, plus 2 ISDN ports

SOHO customers can **preserve their PBXs, analogue or ISDN telephones, FAX machines and modems** and connect them directly to Telsey SOHO gateways' multiple FXS and ISDN BRI interfaces. The integrated VoIP engine gives customers the advantage to access Voice, FAX and modem services over IP without buying any new telephone (VoIP) equipment or adding any adapters.

The flexible and powerful telephone interface configurations of our SOHO Integrated Access Devices easily integrate them with the end users' telephone equipment.



A complete set of voice signalling (H.323 ready, SIP and MCGP available on request) and a variety of codecs (voice G.711, G.729A, G.723, fax T.38, modem and fax pass through) enable operators to quickly incorporate GAD in their network infrastructure.

Excellent QoS is provided through TOS/COS management, G.802.1p queuing. In addition, comfort noise generation and echo suppression are part of our SOHO Gateways' numerous services.

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## Management tools

Telsey SOHO Integrated Access Devices allow Broadband Service Providers to lower the total cost of ownership providing a complete set of management and provisioning tools that make mass deployment easy. They can be managed locally via an RS-232 interface or remotely through a Telnet session. Configuration commands are provided by a Command Line Interface or through an integrated Web interface with simple and intuitive set-up functionalities. Password and authentication procedures make remote or local management secure processes. New configuration set-up and software versions can be downloaded remotely via TFTP to enhance or improve the functionalities of the equipment while DHCP server functionalities eliminate the need to manually configure the IP address of the connected devices.

A SNMP MIB allows equipment integration with advanced management tools, monitoring QoS parameters and to detect alarms promptly.

Remote events log enables a quick reaction to particular and unpredicted situations by providing a powerful diagnostic tool.

## Our Unique Value

Telsey offers a wide range of access gateways. Each model is designed to be easily customizable according to network's characteristics and architectures.

Telsey designs and produces its Access Gateways taking into account the evolving needs of end-users and fast-evolving networks. Through its Research & Development Department, Telsey is constantly testing innovative technology and conducting advanced research.

Our SOHO Access Gateways are easy to use, secure, video interoperable, low cost and efficient. Telsey's SOHO Access Gateways combined with Telsey's Set Top Boxes form flexible and powerful solutions for Voice, Data and Video and are ready for future services over IP broadband networks such as Video Telephony.

Our extensive experience in this industry, with more than **160.000 gateways installed in FTTH/ETTX-ADSL networks**, sets a reference for new customers approaching the broadband communications market. Our proven **reliability**, combined with our **dynamic and aggressive R&D** team, ascertain that Telsey's access gateways solutions represent the best, most up-to-date broadband service delivery vehicle. Distinguished product flexibility, complete gamma of products, choice of protocols, codecs, applications, telephony supplementary services, forward-looking development plans, promptness to incorporate additional services such as online home automation and new Ethernet in the First Mile winning technologies are other important advantages that position Telsey as the ideal partner to help customers maximize their business and preserve their investments.





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- > **GAD:** 4 FXS, Ethernet 10/100BT uplink
- > **GADI:** 2 BRI, Ethernet 10/100 BT uplink
- > **GADM:** 2 FXS plus 2 BRI, Ethernet 10/100 BT uplink
- > **GADA:** 4 FXS, ADSL uplink
- > **GADAM:** 2 FXS plus 2 BRI, ADSL uplink
- > **GADAI:** 2 BRI, ADSL uplink



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