



Data

Voice

Video

Access Platform & Gateways

ST605/605i/605s/605m - DSL Business Router

THOMSON



CONNECTIVITY SOLUTION FOR BUSINESS DSL

The flexibility of the ST605 Series allows a wide range of network deployment scenarios, including:

Network VPN based on VPLS / VLAN

The ST605 Business DSL router optimally supports network-based VPNs based on VPLS / VLAN technology. These network-based VPNs offer a maximum of manageability from an operator-point of view, equalling and even exceeding the user experience as offered by traditional leased lines or frame relay private line connections in terms of security and service level agreements. The ST605 Business DSL router maps VLAN packets on the correct PVC based on VLAN ID and VLAN priority, and performs port-based VLAN tagging. The advanced forwarding engine with support of label policies allows to provide simultaneous access to multiple network based VPNs while keeping the traffic strictly separate between the different VPNs, and to simultaneously offer VPN access and Internet access on the same DSL line.

Business Internet access

Our ST605 Business DSL router provides robust business Internet access. The embedded stateful firewall and intrusion detection system stop attacks in the router and keep the customer safe from any security violations. Content filtering based on a large online database prevents employees from accessing unproductive categories of web sites.

Managed office networking

The ST605 has a 4-ports Managed Ethernet Switch allowing you to connect up to 4 PC's or Servers. The Business DSL Router at any time shows all LAN devices and their status (connected, failed to authenticate, absent), allowing to quickly troubleshoot any problems. Any port on the Managed Switch can be configured as DMZ (Demilitarized Zone). This will allow your customer to share central services with its sales people or other employees at a minimum cost. Ports can also be configured as Guest access, allowing visitors in a meeting room to share the Internet access without compromising the data confidentiality of the enterprise network. The dual memory bank allows completely fail-safe remote software upgrades to keep the router of your customers always up-to-date.

UPnP

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Telecom

Terrestrial

Satellite

Cable



Technical specification

Hardware specifications

Interfaces

- LAN
 - 4 ports 10/100Base-T (RJ45) with auto MDI/MDI-X
 - Serial port
- WAN
 - DSL line RJ11 for ADSL, ADSL2, Re-ADSL (annex L), ADSL2+ (and enhanced upstream ADSL2+ (annex M) for the ST605m)
 - DSL line RJ11 for SHDSL and SHDSL.bis 2-wire ATM and EFM for the ST605s 2-wire. The 2-wire SHDSL can be configured either in CPE mode (connecting to a DSLAM) or in CO mode (two modems can be put back-to-back on blank copper, up to 5.7 Mbps).
 - DSL line RJ14 (pin 3&4 for first pair, pin 2&5 for second pair) for SHDSL and SHDSL.bis 2-wire and 4-wire ATM and EFM for the ST605s 4-wire. The 4-wire SHDSL can be configured as:
 - one 2/4-wire interface: either in CPE mode (connecting to a DSLAM – with auto-detect of 2-wire / 4-wire SHDSL mode or fixed configuration) or in CO mode (two modems can be put back-to-back on blank copper, up to 11.4 Mbps)
 - two separate 2-wire interfaces: either both in CPE mode (can even connect to two different DSLAMs, for back-up purposes and load balancing), both in CO mode (to connect to two remote CPEs) or one in CO and one in CPE mode (for add/drop purposes in linear networks and as repeater with traffic insertion functionality)
- Extensions: (not on 605s)
 - PCMCIA / Card bus

Physical specifications

- Height: 3.5 cm (1.38 in.)
- Width: 24 cm (9.38 in.)
- Depth: 18.5 cm (7.29 in.)

Operating environment

- Temperature: 0° to 40° C (32° to 105° F)
- Humidity: 20% to 80%

Power requirements

- AC voltage: 100 to 120 V AC, 220 to 240 V AC
- Frequency: 50/60 Hz

Services

- Bridging, full VLAN aware bridging (802.1q / p), port-based VLAN tagging, isolated or shared self-learning bridge table, configurable VLAN priority re-mapping, single- and double-VLAN-tagged IP interfaces, mixed bridging and routing on a single PVC with full QoS handling, support of separate management VLAN, FlexiPort
- IP Routing: multi-port router (up to 16 PVCs), DiffServ IP QoS, TCP-aware QoS Enhancement, IGMP Proxy
- NAT/PAT, multi-NAT, transparent NAT
- DHCP: Server and client, spoofing
- BOOTP client
- DNS Server and Relay, Dynamic DNS
- Stateful firewall, Intrusion detection, Denial-of-service attack detection and prevention, DMZ
- Content filtering: URL classification and filtering according to 59 categories, based on look-up in a database accessible on the Internet
- WAN protocol model:
 - Routed PPPoE/PPPoA
 - Relayed PPPoA and DHCP-to-PPP spoofing
 - Bridged Ethernet/Routed Ethernet
 - Routed IPoA and IPoE

Installation

- Installation wizard (customizable per operator), installing both fixed Ethernet network and DSL router

Management

- OS independent
- Fully configurable via user-friendly web-based inter-face supporting 8 languages, accessible via HTTP and HTTPS/SSL
- Command Line Interface fully available both in menu-mode or in text-mode
- Telnet access to router
- SNMPv1 with MIB II
- TR-69 WAN management protocol, TR-64 LAN management protocol
- Windows XP UPnP presentation and discovery
- Configuration and Software back-up & restore
- Software upgradeable with 2 software images (fail-safe remote upgradeable and easy roll-back)
- UPnP* NAT Traversal



For more information

Thomson
46, quai Alphonse Le Gallo
92100 Boulogne-Billancourt
France
Tel. : 33 (0) 1 41 86 50 00
Fax : 33 (0) 1 41 86 56 59
www.thomson-broadband.com