

# ONE80

Multi-SHDSL Business IP Router



The ONE80 is a secure SHDSL router targeted to business customers, including branch offices and telecommuters. The router relies on the robust OneOS software, the OneAccess IP software designed for the delivery of enterprise-grade services. The product is available with different feature packs tailored to your needs. The ONE80 enables the customer to fully enjoy the benefits of OneOS on a single platform, consisting of an advanced firewall, VPN features and great manageability, that, in turn, enables a reduced network Total Cost of Ownership.

## BROADBAND ACCESS FOR NEW SERVICE DELIVERY

The ONE80 is available with a G.SHDSL interface that provides symmetrical speeds from 192 Kbps up to 9.2 Mbps, and is well adapted to the traffic profile for information exchange between businesses. The 8 wires G.SHDSL interface increases reach and throughput. By bundling the G.SHDSL wires, the device expands the potential customer base and leverages existing xDSL coverage. Also supporting Fast Ethernet uplink, the ONE80 offers numerous options for high-speed connectivity.

All flows can be processed in as many classes of service as needed and managed on any interfaces, including the WLAN and G.SHDSL interfaces. A firewall can be configured to block unauthorized accesses and protect the LAN workstations from being flooded with malicious flows. The VoIP Service is protected by the Context Based Access Control, which realizes a stateful packet inspection to monitor the validity of protocol transactions.

## WIRELESS LAN SOLUTION

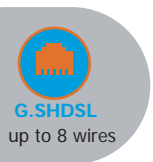
In addition to LAN, the device optionally bundles WLAN traffic over a single uplink. The WLAN interface, which can be divided into multiple subnet works by assigning multiple SSIDs. Several user authentication schemes and policy based routing can be applied so that a public hot spot service can be offered while securing the company's LAN from intrusions. The xDSL access is thus highly optimized by sharing resources for, WLAN and LAN.

## ACCELERATES DEPLOYMENT AND SERVICE PROVISIONING

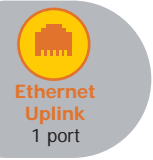
The total solution lowers operational costs by omitting the need for multiple devices. The industry's standard Command Line Interface (CLI) facilitates the configuration setting. Designed for wide-scale deployment, the ONE80 software streamlines and accelerates network operations. Deployment of multiple devices is eased with automated replication of device configuration and a set of auto-discovery functions. For efficiency, the device can be remotely managed and accessed securely from the Network Operation Center to perform diagnostics and performance analysis. A set of embedded tools and service level indicators enable more responsive customer support and virtually eliminate the need for costly on-site assistance. As a result, the comprehensive management facilities of the ONE80 help service providers to control operational expenditures associated with deployment and maintenance.

## ADVANCED ROUTER FUNCTIONS

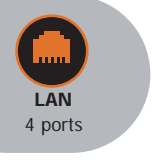
The ONE80 provides best-in-class IP Quality of Service features including real-time processing of high-priority, delay-sensitive applications and guaranteed bandwidth for selected flows.



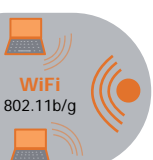
G.SHDSL  
up to 8 wires



Ethernet  
Uplink  
1 port



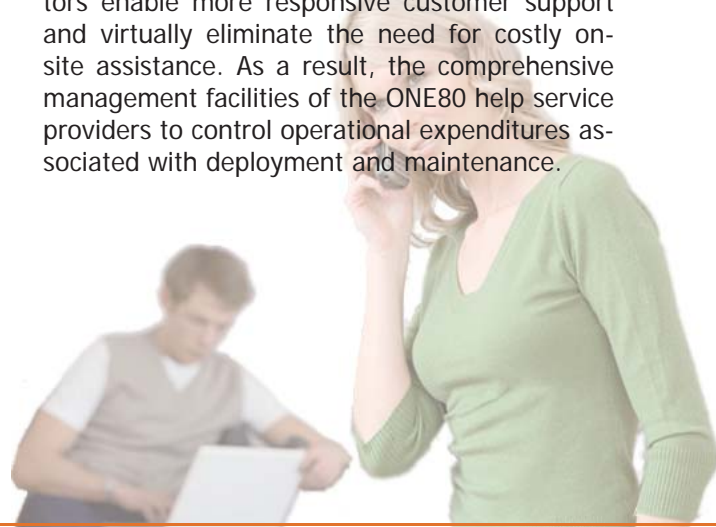
LAN  
4 ports



WiFi  
802.11b/g



plug  
& play





Rear View\*

## ONE80 SPECIFICATIONS

### Product Architecture

#### G.SHDSL Uplink

- G.SHDSL (G.991.2) 2/4 wires
- IMA G.SHDSL (G.991.2) 8 wires
- RJ-45 Interface
- Synchronization LEDs

#### Basic Configuration:

- G.SHDSL 2/4/8 wires
- 1 Fast Ethernet base T 10/100 Mbps uplink
- Fast Ethernet switch (4 x 10/100 BT with autosense)
- 1 Console port
- IPSEC encryption accelerator

#### Ethernet Switch (4 ports)

- Automatic crossover
- 10/100 Mbps, half/full duplex with autosensing
- Link status and activity LEDs

#### Console Port

- RS-232
- RJ-45 connector

#### Factory options:

#### Wireless LAN

- WMM QoS
- Dual mode IEEE 802.11b/g
- Encryption: WEP (key length: 64, 128 bits), TKIP
- Two antennas
- WPA 1.2 and 2.0 (802.11i) WPA-PSK and 802.1X (EAP, EAP-TLS, Authentication via RADIUS servers)

### IP Addressing & Routing

- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, Application pass-through
- DHCP client, server, relay
- IP address helpers
- DNS proxy
- Routing protocols: RIP v1/v2, OSPF v2, BGP v4
- Multicast Routing: PIM-SM and IGMP v2/v3
- Policy-Based Routing
- VRRP
- Server load balancing
- Tunnel: IP Sec, GRE, IPIP, L2TP

\* Rear view depends on the router configuration

\*\* Please check with OneAccess marketing for availability.

### IP Quality of Service

- IP Classification and priority (DiffServ)
- Class-Based Queuing (CBQ), CB-WFQ on LAN/WAN interfaces
- Low Latency Queuing, fragmentation and interleaving
- Policing and remarking
- RED, WRED, ECN

### Security

#### Firewall

- Standard and extended access lists
- Stateful packet inspection
- Session monitoring and limiting
- Configurable timers per port and application
- All firewall log messages can be buffered, viewed or sent to a syslog server

#### VLAN

- 802.1p Tagging
- Supports multiple VLAN ID per ports (802.1q)
- Configurable layer-two switching

#### IP Security

- Software encryption: AES, DES, 3DES
- Tunnel and transport mode: IKE and PKI, AH and ESP with SHA1 and MD-5 hashing
- Hardware accelerated encryption: DES, 3DES
- Hardware authentication algorithm: SHA, MD5
- UDP-based encapsulation for NAT traversal
- IKE with pre-shared secret, symmetrical or client-server mode
- Perfect Forward Secrecy
- DNS server update protocol: DynDNS

### Management

- Industry standard Command Line Interface (CLI)
- Web-based configurator for LAN and WLAN settings by end-users (can be turned off)
- SNMP V1/V2C/V3
- Support of user privilege
- Upload/download of configuration and binaries via FTP/TFTP
- QoS measurement probe
- Traceroute, ping, extended ping
- User authentication via RADIUS or TACACS+
- RADIUS accounting
- Global statistics screens (console, web-based)
- Event and trace buffering
- Syslog client
- Flow capture and decoding

### ATM

- Up to 6 PVC
- OAM-F5 (send/receive): loopback, continuity check (segment and end to end)
- UNI 3.1
- AAL-1, AAL-2, AAL-5
- Shaping: UBR, VBR-NRT, VBR-RT, CBR
- Encapsulation (LLC or Mux): IPoE (bridge), PPPoA, PPPoE

### PPP

- PPP over ATM (rfc 1438), PPPoE (rfc 2516), PPPoEoA
- Automatic IP parameter assignment
- MLPPP fragmentation and interleaving
- PAP/CHAP authentication

### Housing

W x H x D: 20 x 5 x 32 cm - Weight: 2,2 kgs