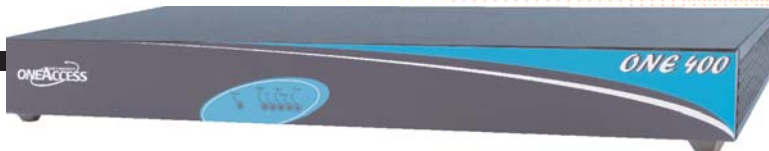


# ONE 400

## Multi-Service Enterprise Router



Voice over IP

Voice over DSL

Voice over ATM

The *ONE 400* is a powerful, high performance, multi-service access router (voice and data), designed for small to medium sized businesses that require access to secure IP-VPN's with high-speed access technologies. The *ONE 400* manages public telephony access and PBX interconnection using multiple standards including ATM/DSL (VMOA) and/or IP (VoIP). With a comprehensive feature set designed to simplify deployment, the *ONE 400* is the ideal solution for delivery of Voice and data services to business customers.

### Full Featured, Secure Router for High Speed VPN Access

The *ONE 400* supports enhanced IP Quality of Service (QoS) and Network Address Translation. It offers convenient server functions for devices on the LAN such as DHCP server or DNS cache. The device manages both a DMZ and protects stations using VLAN-based technology. A robust firewall and encryption procedures for VPN access ensure an enhanced level of security with high performance based on state-of-the-art silicon technology. Automatic backup of IP services on redundant interfaces or router guarantees a high level of service.

### Accelerates Deployment and Service Provisioning

At initial power-up, the unit auto-discovers its configuration. Without any required action during installation, less manpower and time are required. User-friendly CLI and auto-learning functions minimize training and enable rapid and efficient deployment.

### Multiple Uplink Technologies

The device connects to the carrier's network using Ethernet/VLAN, ATM (STM-1, IMA E1) or SHDSL. The flexible design of the *ONE 400* interfaces enables the device to be adapted to most customer's capacity requirement.

### Reliable Voice Delivery

Capitalizing on six years experience in interconnecting PBX over packet networks, the *ONE 400* software delivers broad interoperability with major PBX vendors. High density DSP capacity processes up to 30 simultaneous Voice channels. In addition, Voice backup provides enhanced availability during network outages.

The field-proven software for Voice over IP (VoIP, H.323) provides solutions for PBX interconnection with support of standards based and selected vendor-specific inter-signaling. OneAccess VMOA/VTOA implementation for PSTN access not only complies with the latest standards for high interoperability, but facilitates the optimization of network resources.

### Protects Investment

Companies need to maintain existing legacy devices that support business critical applications. Whether the customer premises equipment is a Frame Relay access device or an X.25 switch, using the same uplink for Voice, IP and data omits the need for costly Leased Lines. Interconnection of the equipment to the existing CPE is non-disruptive to existing applications. No additional configuration is required by the CPE since its interface remains unchanged.

# Technical

## ONE 400 Specifications

### Product Architecture

#### Basic Configuration

- 1 serial WAN port V.11/V.35/V.28/V.36 DTE/DCE
- 1 Ethernet 10/100 base T
  - + 1 Ethernet 10 base T
- 1 Console port
- 1 Slot for uplink, 1 slot for voice connectivity
- 1 Slot for a four-port Ethernet module (10/100 base T autosensing). Negates the 10/100 Ethernet port of the basic configuration.

#### Uplink Module

- G.SHDSL/SDSL modem, 2 or 4 wires
- E3
- ATM STM-1
- IMA E1/T1 (4/8 ports)
- Single Ethernet 10/100

#### Voice Cards

- 1/4 E1/T1/PRI
- 4/8 BRI S/T0
- 4/8 FXS

#### IP Services

- IP classification and priority (DiffServ), CB-WFQ, WRED
- NAT/NAPT (N to M, two-way, twice NAT, application pass-through)
- DHCP client, server, relay
- DNS proxy
- Routing: static, RIP v2, BGP, OSPF, policy-based
- Optional hardware-based IP-sec (\*)
- IP backup services

#### Voice over DSL

- VMOA-00145, VTOA-0113
- Fax, modem, DTMF detection and relay/transport
- G.726 (32 Kbit/s), G.711
- Voice activity detection
- G.165 / G.168 compliant echo cancellation
- ISDN backup

#### Voice over IP

- H.323 V4
- Fax, modem, DTMF detection and transport
- Unrestricted ISDN data, H.320 video pass-through
- G.711, G.723 5.3/6.3, G.729 (A)
- Voice activity detection and comfort noise generation
- G.165 / G.168 compliant echo cancellation

### Security

- IP sec with optional hardware acceleration (\*)
  - DES/3DES encryption
  - Tunnel and transport mode
  - IKE and PKI
  - AH, ESP with SHA1 and MD-5 hashing
- Firewall (filtering and content analysis)
- VLAN management

### Management Services

- CLI and SNMP manageable
- TFTP for software, configuration and script downloading
- Statistics and event recording
- Remote ping, traceroute, traffic generator

### PPP

- PPP over ATM (rfc 1483), PPPoE (rfc 2516)
- Automatic IP parameter assignment
- PAP/CHAP authentication

### ATM

- ILMI V4.0
- OAM-F5
- UNI 3.1
- AAL-2, AAL-5
- VBR-rt, VBR-nrt, UBR, CBR

### Technology

- WxHxD: 43 x 5 x 28 cm
- Weight: 3 kg
- Internal Power supply: 90 to 250V AC
- MTBF: 300,000 hours

### Standards

- Compliant with CE Mark regarding safety, electromagnetic compatibility, immunity and interfaces.
- US: FCC part 15 class B CB report

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

OneAccess reserves the right to change the technical characteristics described in this document without prior notice. Printed in France.

