



The ONE6o provides small and medium businesses with reliable and secure access over legacy E1/T1\* and serial connections. Designed for multiple uplink types, the device fulfills customer requirements for current and future access technologies. Combined with rich and consistent management functions available in the ONE Range of products, the ONE6o greatly simplifies deployment and maintenance. A comprehensive feature set including backup, security and IP Quality of Service delivers value added services to customers and increases revenues for service providers.



**Multi-Service  
ACCESS ROUTERS**

### ABOUT OneAccess

OneAccess designs and develops a range of world-class multi-service routers for over 140 global service provider customers including four of the top five operators in Europe. This makes OneAccess the number two branch office router solution provider in the world by volume.

With an international support network operating from offices in North America, Europe and Asia, OneAccess is able to work closely and cooperatively with all its clients throughout the development and roll-out phases for new services.

### High Quality of service

Advanced ATM and IP Quality of Service mechanisms are embedded in the ONE6o hardware and software. Built-in management tools monitor QoS indicators and provide traffic analysis for rapid diagnostic and troubleshooting. As a result, network resources are optimized and delivery of customer support is enhanced. Best-in-Class Quality of Service ensures consistency in the delivery of voice and video applications as well as premium rate services.

### High Availability

Continual access to the Internet is provided through an Optional ISDN So network interface, which can be used for backup of IP services or as an access point for telecommuters or remote equipment configuration.

### Enhanced Security

A robust firewall with Stateful Packet Inspection and optional encryption engine provides enhanced security to protect critical data assets and deliver secure, high-speed connections for applications outsourcing and telecommuters.

### Ease of Management and Provisioning

The device management features an intuitive industry standard command line interface that reduces the need for installation, product training or hotline assistance. Simplified management reduces user intervention and speeds wide-scale deployment at lower cost.

### Flexible Options

Designed for use with multiple access technologies, the ONE6o offers a legacy E1/T1\* or serial uplink.

Available with one or more factory installed options including ISDN So backup interface, PSTN dial-up interface or asynchronous low speed ports, the modular and flexible design of the ONE6o addresses a diverse number of customer requirements in one compact unit.



## TECHNICAL FEATURES



### Product Architecture

#### Basic Configuration:

- 1 Ethernet base T 10/100 Mbps
- 1 Console port V.28

#### Possible Uplink Interfaces:

- E1/T1\* (FR-PPP or ATM)
- 1 Serial WAN port V.11/V.35/V.28/V.36
- DTE/DCE (uplink or user port up to 8 Mbps)

### Optional Daughter Board (factory modular)

- 1 So for IP backup and remote access
- 1 V.90 modem (PSTN)
- 2 x V.28 (X.25 or PAD)
- 2 x V.28 (X.25 or PAD) + 1 V.90 modem (PSTN)

### IP Services

- IP classification and traffic conditioning (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, hash-based load-sharing, multicast routing (PIM-SM, PIM-SSM)
- Tunneling: GRE, L2TP
- VRRP
- Server load balancing

### Security

- IPSec
  - AES/DES/3DES encryption
  - Tunnel and transport mode
  - IKE
  - AH, ESP with SHA1 and MD-5 hashing
- Firewall (filtering and content analysis)
- VLAN IEEE 802.1p Tagging
- SSH V.2

### Management Services

- CLI and SNMP (V.1, V.2, V.3) manageable
- FTP/TFTP for software, configuration and script download
- Statistics and event recording
- Traceroute, traffic generator
- Performance agent
- AAA/Radius, Tacacs+

### PPP

- (ML) PPP over ATM (rfc 1483), PPPoE (rfc 2516), PPP over serial
- PAP/CHAP authentication
- ISDN: MLPPP, Bandwidth on demand
- Fragmentation and interleaving

### ATM

- ILMI V4.0
- OAM-F5
- UNI 3.1
- AAL-5
- UBR, CBR, VBR
- IPoA, PPPoA, PPPoEoA

### FR

- QoS management
- LMI: T1.617, Q.933a
- FRF.12

### Interworking Functions

- FRF.5
- FRF.8
- X.25 over TCP/IP and PAD over XOT

### Mechanical Data

- W x H x D: 200 x 50 x 210 mm
- Weight: 1,1 kg

### Power Requirements

- External power supply 90-250 V AC 50-60 Hz

### Hardware Compliance

- MTBF: 450,000 hours
- Temperature between 0°C and 45°C
- Humidity between 5% and 85%
- Regulatory compliance: IEC 950 class 2, EN55022, EN300386, EN55024, UL/CSA, FCC class B
- CE Mark (63-23 and 89-386)

### Power supply

- External adapter 12V – 2A
- Voltage range: 110-230 VAC – 50/60 Hz
- Power consumption: <24 W

\* Cf. Roadmap