



The ONE300 multi-play router delivers advanced voice, IP and WiFi services for small to medium-size branch offices. The device is available with digital telephony interfaces. In addition to voice service over IP, the device features powerful router functions including Quality of Service (QoS), secure access control and wireless for private or public hotspot services. The ONE300 embeds a suite of tools to more efficiently deploy, manage and supervise service delivery. Versatile and easy to operate, the ONE300 lowers total cost of ownership, and creates value for both carriers and businesses delivering bundled voice, data and connectivity.



Broadband Access for New Service Delivery

Supporting Fast Ethernet uplink, the ONE300E offers numerous options for high-speed connectivity. For adaptation in various customer environments digital (BRI, PRI) voice interfaces are available for connectivity with either phones or PBX.

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.

Reliable Voice Solutions

The ONE300 is the result of OneAccess long-held expertise in voice processing and signalling, which guarantees by design, high voice quality and interoperability. With various signalling (H.323 or SIP) for delivery of voice, the ONE300E is a secure choice in evolving networks. Simplified troubleshooting ensured by embedded voice quality audit functions monitoring voice frame jitter and estimated echo. The VoIP software features measurement probes delivering statistics about the network quality of service. It also offers flexible voice routing: the user can adjust the gateway to the various numbering plans, insert/remove call number digits and apply differentiated voice processing.

Advanced Router Functions

The ONE300E 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. All flows can be processed in as many classes of service as needed and managed on any interfaces, including the WLAN interface. 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.

Accelerates Deployment and Service Provisioning

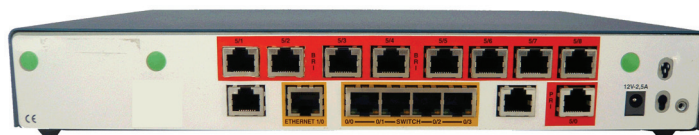
The total solution lowers operational costs by omitting the need for multiple devices. The industry's standard Command Line Interface (CLI) facilitates the configuration setting. Designed for wide-scale deployment, the ONE300E software streamlines and accelerates network operations. Deployment of multiple 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 ONE300E help service providers to control operational expenditures associated with deployment and maintenance.

ONE300E

Multiplay Enterprise Access Router



TECHNICAL FEATURES



Product Architecture

Basic Configuration:

- 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:

1/2 E1/T1/PRI port

- Up to 30 voice channels
- G.703/704

8 BRI ports

- CTR3/Euro-ISDN/Euro-numeric compliant, So and To, NT or TE mode
- Point-to-point and multipoint
- Power source type 1 (2W / port)
- Fax/modem/unrestricted BC detection and transport

Voice Interfaces

- 1 PRI & BRI
- 1+1 PRI, 1+1 PRI + 2 BRI

Voice over IP

- H.323 version 4
 - H.245 tunneling
 - DTMF: inband (RFC2833) or out-of-band (H.245 alphanumeric mode)
- SIP

Voice Call Routing

- Line Hunting
- Insertion/suppression of digits
- Local port switching
- Selection of voice processing

Fax and Modem over IP

- Fax: V.27ter, G3, Super G3, V.29
- T.38 fax relay
- Modem detection and transport in clear channel mode

Voice Processing

- Echo cancellation: G.165/168 compliant, non-linear processing
- Voice compression: G.711 (a/μ law), G.729a/ab, configurable packet length
- DTMF detection and generation
- Country-specific tone generation and customization

- Silence suppression and comfort noise generation

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, BGP v4
- Policy-Based Routing
- VRRP
- Server load balancing
- Tunnel: IP Sec, GRE, L2TP

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 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

- Voice quality audit and call history
- Voice call generator
- 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

PPP

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

Mechanical Data

- W x H x D: 200 x 50 x 320 mm
- Weight: 2,2 kgs

Power Supply

- External adapter 12v- 3A
- Voltage range: 110-230VAC - 50/60 Hz
- Power consumption; <30W

** Rear view depends on the router configuration
** Please check with OneAccess marketing for availability.*