



- Integrated voice and data managed services
- For 10 to 40 desk offices; 8 voice channels
- Analogue, TDM and IP Voice
- Fast Ethernet Switching
- Fibre (Ethernet), VDSL, ADSL access
- Industry leading price performance
- Simple deployment, provisioning and management
- Industry standard CLI



Managed Voice and Data Services for the smaller Office

Targeting the smaller enterprise and enterprise branch offices, the OneAccess ONE150 Multi-Service Access Router is a high performance, one box solution for unified voice and data managed services. The ONE150 integrates analogue voice, IP voice and enterprise-class data services over Fibre (Ethernet), VDSL and ADSL access networks. With Dial Tone Continuity®, sophisticated IP Quality of Service and flexible IP VPN as standard, the ONE150 offers a highly cost effective and customisable gateway to new managed service revenues.

The ONE150 is scaled to provide 10 to 40 desks with analogue, legacy or IP voice, sophisticated data services, embedded security and high availability. Software options including SBC Nano® and Integrated Business Communications® (IBC), add richness, assurance and simplicity to new service introductions.

The ONE150 is a perfect fit for fixed line operators, mobile operators and ISPs targeting smaller enterprises or branch offices with a portfolio of managed and value-added services up to and including hosted or cloud-based telephony.

Voice Service Agility

The ONE150 offers exceptional voice service agility: supporting, adding value and managing every service combination on the migration from analogue and TDM voice, through IP voice, to hosted or cloud based services. For example, voice can be encoded to H.323 or SIP standards; Integrated Business Communications (IBC) turns the ONE150 into a fully fledged IP PBX with embedded Unified Communications; and the unique SBC Nano capability provides trouble free signalling between the customers' IP PBX and the provider's network, or alternatively allows a broad range of SIP phones to connect directly and seamlessly to core networks;

Assuring the migration to managed and hosted voice services is Dial Tone Continuity. This sophisticated feature automatically leverages IBC, and concurrent routing over Fibre and DSL networks, to maintain high availability of telephony services in the event of primary network failures.

Up to 8 analogue handsets can connect via FSX interfaces. Traditional PBXs can connect via a maximum of 4 ISDN BRI interfaces. Provisioning is simple, and supported by an industry standard CLI.

Enterprise-Class Data Services

IP PBXs, server rooms and local area networks are connected to each other and the wide area network via the built in 4 port 100Mbps Ethernet switch. The ONE150 can be optionally specified with WiFi, supporting 802.11b/g/n. The powerful ONE150 platform supports symmetrical, high speed Layer 3 switching at next generation broadband throughputs, with sophisticated QoS. The firewall provides embedded security and a suite of IP VPN capabilities, making the connection of enterprise branch offices both seamless and straight forward.

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.

ONE150

Multi-Service Access Router



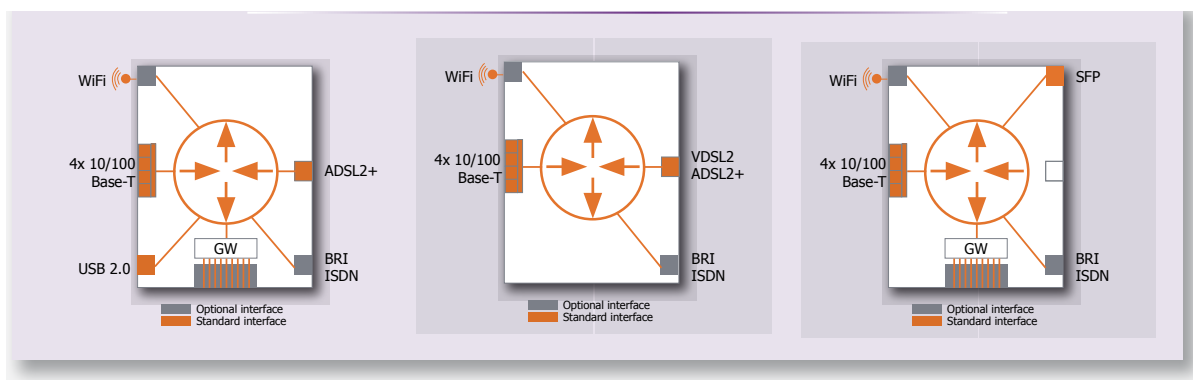
Access Network Flexibility and Migration

Fibre (Ethernet) and auto sensing ADSL+/VDSL interfaces are combined on a single product, each offering up to 100Mbps throughput. The ADSL+/VDSL interface supports ATM and Ethernet protocols.

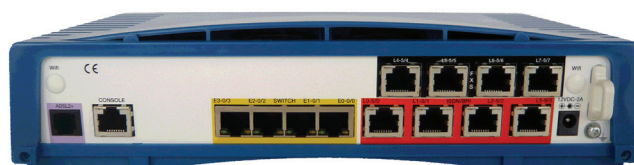
Reducing Total Cost of Ownership

As well as opening the door to new revenue opportunities, the ONE150 helps achieve long term cost savings. As a service provider, the opportunity to replace multiple CPE with a single, flexible unit, means reduced capital costs and simpler logistics and operations. In addition, a suite of provisioning tools makes roll out simpler, less prone to error and more cost effective. For instance, auto discovery options simplify initial set-ups. Tried and tested configurations can then be 'cloned' to new installations from the network operations centre (NOC). The industry standard CLI removes the need for technician training.

A set of embedded tools and service level indicators – for example, voice quality audit functions including jitter monitoring and mean opinion score (MOS) statistics - make it simple to manage and assure the customer experience remotely, virtually removing the need for maintenance truck rolls.



TECHNICAL FEATURES



Basic hardware

- 1x DSL (ADSL2+/VDSL) interface card or 1x ADSL2+ interface
- 1x 100 Mbps Ethernet SFP socket
- Fast Ethernet 4 port switch
- 1x console port
- Up to 4 BRI and up to 8 FXS voice ports (8 voice channels)
- IPsec encryption accelerator for DES, 3DES, AES

VDSL2/ADSL interface card and ADSL2+ interface

- Dual chip VDSL2 & ADSL2+
- VDSL2 according to G.993.2
- G.lite, G.DMT Annex A (ADSL over POTS)
- G.DMT Annex B (ADSL over ISDN, U-R2 compatible)

- ADSL2/2+ G.992.3 (including annex L - annex M) G.992.4, G.992.5
- RJ-11 connector
- ATM for ADSL
- EFM IEEE 802.3 2BASE-TL (aka 802.3ah) (for VDSL)
- ADSL/VDSL auto-sensing

SFP interface

- Universal SFP socket, 100 Mbps full duplex

Ethernet interfaces

- 10/100Mbps, half/full duplex with auto-sense
- Automatic cross-over

Wireless LAN (factory option)

- Dual mode IEEE 802.11b/g/n
- Two antennas
- WMM QoS
- Encryption options WEP, WPA 1.2 (TKIP) and WPA 2.0 (802.11i, AES-CCMP)
- Authentication options WPA-PSK (pre-shared key) and 802.1x with a RADIUS server (PEAP, EAP-SIM, EAP-TLS and EAP-TTLS)

BRI ports (factory option)

- 2 or 4 ports
- CTR3 / Euro-ISDN / Euro-numeris 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



TECHNICAL FEATURES

FXS ports (factory option)

- 2, 4 or 8 ports (VDSL version limited to 4)
- Loop start
- On-hook voltage: 35 V RMS
- Support of caller-id (DTMF and FSK)
- Support of fax and modem

Voice over IP

- SIP
- H.323 version 4 (if required, please contact OneAccess Marketing)

Voice Call Routing

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

Fax and Modem over IP

- Fax: V.27ter, G3, Super G3, V.29
- T.38 fax over IP
- Modem detection

Bridging and VLANs

- Bridging and Integrated Routing and Bridging (IRB)
- VLAN tagging and untagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, TOS/COS and COS/TOS mapping

Voice processing

- Echo cancellation: G.165/168 compliant, non-linear processing
- Voice compression: G.711 (a/μ law), G.726, G.729a, configurable packet length
- DTMF detection and generation
- Country specific tone generation and customisation
- Silence suppression and comfort noise generation
- MOS scoring evaluation

IP Addressing & Routing

- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT
- NAT Application Level Gateway (ALG) for VOIP: SIP, H.323
- DHCP client, server, relay, 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

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

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

IP VPNs

- Tunnels: IPsec, GRE, IPIP, L2TP
- IPsec encryption: AES, DES, 3DES*
- IPsec tunnel and transport mode: IKE and PKI, AH and ESP with SHA1 and MD-5 hashing
- UDP-based encapsulation for NAT traversal
- IKE with pre-shared secret, symmetrical or client-server mode, or X.509 certificate
- Perfect Forward Secrecy
- DNS server update protocol: DynDNS

ATM (for ADSL interface)

- Up to 8 PVCs
- OAM-F5 (send/receive): loopback, continuity check
- Shaping: UBR, VBR-NRT, VBR-RT, CBR
- Encapsulations (LLC or Mux): IP, IPoE, PPP, PPPoE

EFM (for VDSL interface)

- IEEE 802.3 2BASE-TL (aka 802.3ah)
- OAM IEEE 802.3 chapter 57

PPP

- PPP over ATM, PPP over Ethernet (PPPoE) on Ethernet, EFM (VDSL2) and ATM (ADSL2+) interfaces
- Automatic IP address assignment
- MLPPP bonding with fragmentation and interleaving
- PAP/CHAP authentication
- IPCP subnet mask
- MAC address based authentication

Management

- Industry standard Command Line Interface (CLI)
- Web-based GUI for LAN, WLAN and IBC settings by end-users (can be turned off)
- Auto-provisioning via HTTP auto-update protocol or CWMP (TR-069)
- SNMP V1/V2C/V3
- Support of user privileges
- File upload/download 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

Extra Software Options

- IBC Call Manager (Full featured soft-PBX)
- X.31/X.25 over TCP/IP
- Wireless access point controller

Dimensions

- Desktop, wall mountable
- W x H x D: 275 x 50 x 145 mm; Weight: 1,0 kg

Power supply

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