

ABOUT OneAccess

OneAccess designs, develops and markets innovative platforms for the profitable delivery of CPE-based managed network services for communications and managed service providers.

Its industry-leading multi-service access routers and Carrier Ethernet devices are designed to deliver service continuity, high quality of experience and high speed performance for SMBs and Enterprise customers.

OneAccess hardware and software solutions for data and voice enable service providers to optimize the delivery of managed Cloud services and migration to SDN/NFV architectures.

OneAccess CPE platforms are used by more than 110 communication service providers globally, including many of the largest telecommunications companies.

- Combines ADSL2+ and VDSL2 for 100 Mbps service and Fibre WAN (SFP) for 1000 Mbps service
- Support ca. 20 users
- State-of-the-art DSL technology: ADSL2+ annex J, VDSL2 up to 100 Mbps, vectoring-ready
- Integrated voice and data managed services
- Up to 8 voice channels
- Analogue, TDM and IP Voice
- Market-leading price performance
- 4-port GigabitEthernet switch and 802.11n WiFi
- Industry-standard CLI
- Advanced software: complete IPv6 routing and VRF, QoS, EZVPN, GET-VPN, application visibility and control

Managed Voice and Data Services for Small and Medium Businesses

Targeting the small enterprises and enterprise branch offices, the OneAccess ONE425 Multi-Service Access Router is a high performance, one box solution for unified voice and data managed services. The ONE425 is an integrated device for voice, data, security and WAN uplink redundancy. It integrates OneAccess VoIP technology and enterprise-class data services to deliver high service density over ADSL & VDSL2 broadband technologies or fiber.

The ONE425 enables service providers to deliver hosted and managed communication services combining data routing, security, voice services, Wireless LAN and multiple WAN access. As Service Providers strive to lower operations costs and generate new revenues, the flexibility and service density of the ONE425 provide a cost-effective solution to address the communications needs of the enterprise and leverage the growing SaaS Cloud infrastructure.

The flexible connectivity of the ONE425 provides a seamless migration from current ADSL to the next generation high-performance VDSL2 and fiber to address the increasing requirements of bandwidth-hungry applications. The ONE425 is a perfect fit for fixed line operators, mobile operators and ISPs targeting small enterprises or branch offices with a portfolio of hosted and cloud-based services.

Voice Service Agility

The ONE425 is an agile platform with integrated voice capabilities that enables service providers to :

- migrate legacy ports (analog, ISDN) to VoIP networks
- develop innovative SIP-based voice services including hosted communications and SIP Trunking services
- deliver an all in one solution including a call control platform that supports enterprise-class IP-based communication services.

Featuring either analog or BRI ports or a combination of both, the integrated VoIP gateway connects analog terminals, ISDN endpoints or PBXs to the VoIP network. In addition the ONE425 provides advanced voice routing functionalities along with backup and call admission control capabilities to ensure a high quality and uninterrupted service.

For hosted communications and SIP trunking services, the onboard SBC Nano module acts as an enterprise SBC to secure the end-to-end SIP-based voice services, address interoperability issues inherent in SIP networks and ensure voice quality. With its Dial Tone Continuity feature, the SBC Nano helps to ensure voice service resiliency by enabling both internal and external calls during network outages.

Leveraging the ONE425 platform the optional , Integrated Business Communications (IBC) software turns the ONE425 into a full fledged IP-PBX with embedded Unified Communications. The IBC option takes full advantage of the service convergence to provide enterprise-class communication services in combination with the ONE425 data service capabilities including broadband access and wireless LAN.

ONE425

Branch Office Router for Hosted Communication

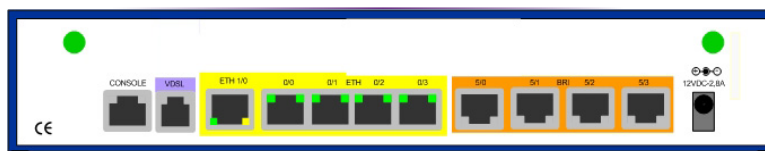


Enterprise Class Data Services

The ONE425 offers service providers the flexibility to support a wide variety of local and wide area access connectivity speeds and types. For the access network, it combines ADSL and VDSL2 to provide connectivity to the existing ADSL infrastructure and support next generation VDSL2. The main VDSL2 interface offers speeds up to 100 Mbps downstream and upstream and the optional SFP offers speeds up to 1000 Mbps. A FE WAN port offers network redundancy and enables a cost effective high speed back-up and high availability capability in support of stringent service level agreements or business critical application services.

All the enterprise communication infrastructure, including IP PBXs, servers and switches are connected to the wide area network via the in-built 4 port Gigabit Ethernet switch of the ONE425. With the WLAN option, OneAccess brings a 802.11 b/g/n WLAN interface into the ONE425 to deliver secured, high-performance wireless networking. State-of-the-art authentication schemes are supported such that public hotspot services can be delivered over the same platform without compromising the security of the private wireless or wired infrastructure.

TECHNICAL FEATURES



General

- Fast Ethernet UTP port
- 4 port Gigabit Ethernet LAN switch
- DSP for voice gateway or call manager
- Console port

VDSL2 Interface (factory option)

- VDSL G.993.2 annexes A&B - 1 line pair
- Profiles 8,12,17 and 30
- Vectoring-ready
- EFM IEEE 802.3ah (10PASS-TS)
- ADSL G.992.1, G.992.3, G.992.5 - annexes A, B, J, L, M
- ATM (8 PVCs, OAM, encapsulations IP, IPoE, PPP, PPPoE)
- RJ-11 connector

SFP Interface (factory option)

- 1 SFP slot for Fibre Modules
- SFP slot supports 100 Base-X and 1000 Base-X fibre modules

LAN Interfaces

- 4 port switch 10/100/1000BASE-T auto-sense
- 1 port 10/100BASE-T auto-sense
- Automatic cross-over
- RJ-45 connectors

Wireless LAN (factory option)

- Dual mode IEEE 802.11b/g and n
- Two detachable 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)

Console port

- RS232 – RJ-45 port

BRI port (factory option)

- 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

FXS ports (factory option)

- Up to 8 ports - Loop start
- On-hook voltage: 35 V RMS
- Support of caller-id (DTMF and FSK)
- Support of fax and modem

FXO ports (factory option)

- Connection to public switched telephone network with lifeline

Performance

- LAN to LAN: 80,000 pps

IP Addressing & Routing

- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, Application pass-through
- DHCP client, server, relay, IP helper addresses
- DNS proxy. DNS server update protocol: DynDNS
- VRF-aware IPv4/IPv6 routing protocols: RIP v1/v2/ng, OSPF v2/v3, BGP v4, BFD
- Multicast Routing: PIM-SM and IGMP v2/v3
- Policy-Based Routing
- VRRP
- Server load balancing
- Dual-stack IPv4/IPv6

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



TECHNICAL FEATURES

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

- 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
- Perfect Forward Secrecy
- EZ VPN
- GET_VPN (license)

Bridging and VLANs

- Bridging & Integrated Routing and Bridging (IRB)
- VLAN tagging and un-tagging
- Multiple VLAN IDs per port
- 802.1p priority tagging, ToS/CoS and CoS/ToS mapping

Voice over IP

- SIP gateway
- Fax: V.27ter, G3, Super G3, V.29
- T.38 fax over IP
- Modem detection
- SBC nano (software option)
- IBC Call manager (software option)

Voice processing

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

Management

- Industry standard Command Line Interface (CLI)
- Telnet, SSH, HTTPS
- Web-based configurator for LAN and WLAN
- SNMP V1/V2C/V3
- Netflow v9
- Support of user privileges
- FTP/TFTP upload/download configuration and binaries
- 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

Dimensions

- Desktop, wall mountable
- W x H x D: 273 x 57 x 150 mm; Weight: 0.75 kg

Power supply

- External adapter 12V – 2A/2,8A
- Voltage range: 110-230 VAC – 50/60 Hz
- Power consumption: <33 W

Front and Rear view are representative only and depend on router configuration