SUA tele.net

ONE526

Fast Network Virtualization

Hybrid Access Branch-Office Router for Converged Services

Integration with Today's and Next Generation OSS

Industry-standard MIBs, TR-069 client and Command Line Interface (CLI) enable a swift integration with incumbent management systems and a short learning curve for operational teams. The OneAccess software OneOS6 provides one of the most complete NETCONF implementations on the market. NETCONF enables a gain in service agility for service providers, as the programming of the provisioning flows is greatly accelerated by the transactional nature of NETCONF. It has therefore driven OSS vendors to support this protocol to deal with Network Function Virtualization (NFV). And OneOS6 is ready today for a swift migration to new management platforms.

The Ultra-Connected Branch-Office

The ONE526 meet the evolution of broadband access, with more commoditized fiber connectivity and higher-speed VDSL enabling by vectoring and bonding. The packet forwarding engine delivers premium performance to address these new frontiers in WAN throughputs, even when combining multiple WAN links. The ONE526 supports hybrid access scenarios such as fiber offload over VDSL or LTE.

The ONE526 enables the branch-office to be ultra-connected: not only it connects the WAN at high-speed, but it maximizes WAN availability and throughput with smart, application-aware path selection algorithms.

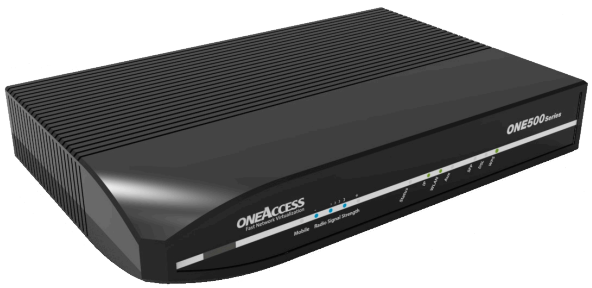
All-IP Migration Enabler

The VoIP software benefits from 10+ year continuous OneAccess development in its carrier-grade signaling and DSP technology. The software has been field-proven against many operators' SIP trunk flavors and PBX. In addition to providing numerous configuration options to adapt to local requirements, the voice software includes many built-in troubleshooting tools to quickly support end-users cost-effectively.

The optional eSBC license enables to connect IP phones for hosted communication services. Alternatively, the eSBC software enables the migration of end-customers upgrading their communication systems with a SIP trunk. In that case, the OneAccess technology ensures a transparent migration from a TDM-based PBX to SIP. Protecting the SIP network throughout this transition enables service providers to promote SIP trunking at lower cost and thus to protect customer loyalty or to reduce the churn.

The Right Platform for the Right Service Level

The modular design enables to fine tune the service offering from less demanding markets to enterprise needs. For that reason the ONE526 can provide advanced services such as: routing protocols and redundancy management, advanced security, application visibility and control



- *Combines dual-pair VDSL, fiber and LTE for hybrid access and service continuity*
- *Ideal for 50 users, requiring a mix of ISDN, FXS and IP-based communication*
- *Optional state-of-the-art Wifi (dual-concurrent radio, 802.11ac)*
- *Industry-standard CLI and NETCONF*

OneOS6

ABOUT us

OneAccess, an Ekinops company, is a leading provider of physical and virtual network functions enabling the delivery of Cloud and other managed services to SMB and enterprise customers around the world.

Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for virtualization-enabled managed enterprise services. OneAccess offers a wide choice of physical and virtualized deployment options for layer 2 and layer 3 network functions.

As service providers embrace SDN and NFV deployment models, OneAccess' solutions enable them to deploy traditionally managed services today in the knowledge that they can seamlessly migrate to an open virtualized delivery model at a time of their choosing whilst avoiding vendor lock-in.

A global organization, with operations in 4 continents; Ekinops (EKI) - a public company traded on the Euronext Paris exchange - is headquartered in Lannion, France, and Ekinops Corp., a wholly-owned subsidiary, is incorporated in the USA. OneAccess is a wholly-owned subsidiary of Ekinops S.A.

OneAccess · OneAccessNet · @OneAccess · www.oneaccess-net.com/blog

ONEACCESS an Ekinops company

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FAST NETWORK VIRTUALIZATION

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Technical Features

General
- Giga Ethernet UTP port
- Giga Ethernet SFP port
- 4 port Gigabit Ethernet LAN switch
- Console port
- OneOS6 software

VDSL2 Interface (factory option)
- VDSL G.993.2 annexes A & B - 1 or 2 line pair
- Profiles 8, 12, 17, 30 and 35b (17 when 2 pairs bonding)
- Vectoring-ready
- G.998.4 (G.INP)
- EFM IEEE 802.3ah (10PASS-TS)
- ADSL G.992.1, G992.3, G992.5 - annexes A, B, J, L, M
- ATM (8 PVCs, OAM, encapsulations IP, IPoE, PPP, PPPoE)
- RJ-11 connector

SFP Interface
- 1 SFP slot for fiber modules
- SFP slot supports 100 Base-X and 1000 Base-X fiber 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)
- IEEE 802.11 b/g/n MIMO 3x3 (2.4 GHz)
- IEEE 802.11 a/n/ac MIMO 4x4 (5 GHz)
- Dual concurrent radio
- Internal 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)

WirelessRadio Interface (factory option)
- Tri Band LTE (800, 900, 1800, 2100 and 2600 MHz) with MIMO 2 x 2, Peak Rate Downlink/Uplink 100/50 Mbps depending on carrier network support (4G versions only)
- Dual Band UMTS/HSPA+ (900 & 2100MHz)
- Tri band Edge/GPRS and GSM (900, 1800 & 1900MHz)
- 2 SMA connectors for mobile antenna
- Dual SIM card

Voice Interfaces (factory options)
- DSP for 8 voice channels, factory option for up to 16 voice channels
- Main board voice interfaces: 4 FXS or 2 BRI or 4 FXS+2 BRI or none
- Extension daughterboard (factory option):
  - 8 FXS+1FXO: loop/ground start; RJ-11 connectors
  - Up to 6 BRI; RJ45 connectors

Console port
- RS232 – RJ-45 port

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

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
- Line Hunting, Insertion & suppression of digits, Local port switching,
- Selection of voice processing
- Echo cancellation: G.165/168 compliant, non-linear processing
- Adaptive jitter
- Voice compression: G.711 (a/μ law), G.729(a/b/ab), configurable
- Packet length
- DTMF detection and generation
- Country specific tone generation and customization
- Silence suppression and comfort noise generation
- MOS scoring evaluation
- SIP UDP/TCP/TLS and RTP/SRTP
- Fax and Modem over IP
- eSBC option

Management
- Industry standard Command Line Interface (CLI)
- Telnet, SSH, HTTPS
- NETCONF server compatible V1.0/V1.1

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Technical Features

- 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

- W x H x D: 14.17" x 2.32" x 8.7" (360 mm x 59 mm x 221 mm)
- Weight: 6.61 lbs (3 Kg)

Power supply

- External adapter 12V – 3A
- Voltage range: 110 - 230 Vac – 50/60 Hz
- Power consumption: <30 W

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