



- Combined ADSL2+ and VDSL2
- State-of-the-art DSL technology: ADSL2+ annex J, VDSL2 up to 100 Mbps, vectoring-ready
- Market-leading price performance
- Fibre WAN (SFP) for 1000 Mbps service
- 4-port Gigabit Ethernet switch and 802.11n WiFi
- Industry-standard CLI
- Advanced software: complete IPv6 routing and VRF, QoS, EZVPN, GET-VPN,



### Managed Data Services for Small and Medium-sized Offices

The ONE420 Multi-Service Access Router delivers advanced data services over ADSL & VDSL2 broadband technologies. With a high performance routing engine, sophisticated IP Quality of Service, flexible IP VPNs, in-built stateful firewall and 1 Gigabit Ethernet LAN switching as standard, the ONE420 enables the seamless roll out of multiple, concurrent, high speed and high quality data services.

#### 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.

### Enterprise Data Services

Servers, server rooms and local area networks are connected to each other and the wide area network via the built in 4 port Gigabit Ethernet switch. Server load balancing ensures that local application performance is maintained.

The ONE420 is equipped with WiFi, compliant with 802.11b/g/n. Several sophisticated authentication schemes are supported, and the WiFi (factory option) network can even be configured as a public hotspot, without compromising the security of the private wireless or wired infrastructure.

The ONE420 supports symmetrical, high speed Layer 3 switching with policy based routing and sophisticated Quality of Service (QoS). Powerful enough to support the real-time processing of multiple, concurrent information flows, the QoS assures the performance of high priority and delay sensitive applications.

A sophisticated and fully standardised IP VPN capability allows teleworkers to access the office IT resources, or branch offices to network back into the enterprise IT infrastructure. The in-built stateful firewall offers a suite of features to maximise information security.

### Flexible High Speed Access Network

The flexible connectivity of the ONE420 provides a seamless migration from current ADSL to the next generation high-performance VDSL2 to address the increasing requirements of bandwidth-hungry applications.

### Low Cost, Low Touch, Accelerated Multi-Service Provisioning

As well as opening the door to new revenue opportunities, the ONE420 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.

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 make it simple to manage and assure the customer experience remotely, virtually removing the need for onsite assistance.





### TECHNICAL FEATURES



#### General

- 1 x VDSL/ADSL2+ uplink
- Fast Ethernet port for backup
- 4 port Gigabit Ethernet LAN switch
- Optional Wireless LAN

#### VDSL2 interface

- VDSL G.993.2 annexes A&B - 1 line pair
- Profiles 8,12,17 and 30
- G.Vector-friendly and -ready (ITU-T G.993.5)
- 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 (factory option)

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

#### LAN Interface

- 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/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

- RS 232 - RJ-45 port

#### IP Addressing & Routing

- Dual-stack IPv4/IPv6
- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT
- DHCP client, server, relay, DNS proxy
- IPv4/v6 DHCP client/server/relay, DNS proxy, prefix delegation
- 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

#### Performance

- LAN to LAN: 80,000 pps

#### 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
- Hierarchical QoS framework

#### 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
- Zone-based Firewall

#### IP VPNs

- Easy VPN (client & server)
- 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
- Group Encrypted Transport VPN

#### 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

#### 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

#### 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
- Netflow V9
- 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

#### Dimensions

- Desktop, wall mountable
- W x H x D: 273 x 57 x 150 mm; Weight: 0.64 kg

#### Power Supply

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