

# ONECell35

3.5G BUSINESS ACCESS ROUTER FOR MOBILE AND BACKUP APPLICATIONS



The ONECell35, a fast 3.5G connection and flexible carrier-grade mobile access router, provides users with high-speed mobile network and VPN connectivity for all their Ethernet and WiFi devices.

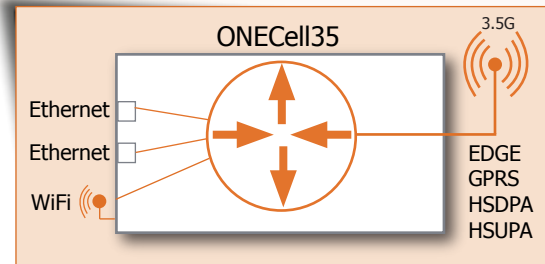
With download speeds of up to 7MB/s, ONECell35 provides an excellent alternative to fixed data communication such as ISDN, leased lines or even broadband access.

The combined advantages of high-speed wireless access network (UMTS, HSPDA, HSUPA) for fast and secure Internet and VPN Access, provide operators with unique opportunities both to grow their customer base and to meet increasingly stringent business customer Service Level Agreements.

## HIGH-SPEED WIRELESS ACCESS

Data communication over mobile networks is one of the fastest growing market segments in the telecoms industry, and is enabling the global expansion of advanced data services and applications.

Moreover, a local access network is easily deployed by means of its dual Ethernet interface and on-board WiFi\* access point.



## PURPOSE BUILT 3.5G BUSINESS ROUTER KEY APPLICATIONS

### ● Remote branch extension of an existing network

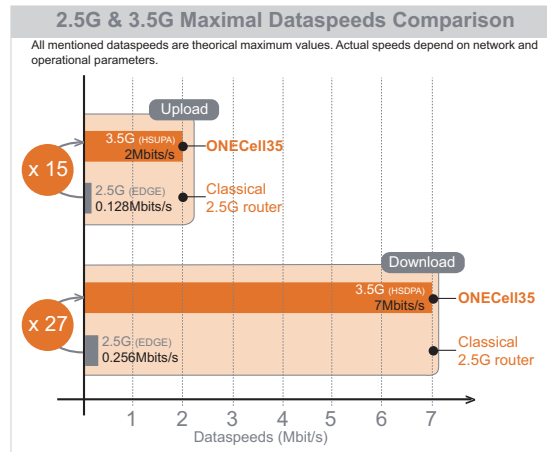
By providing access via the high-speed mobile network, ONECell35 enables Telcos' business customers to enlarge their VPN networks, even when branch offices are located in 'off network' areas, such as retail outlets in remote locations.

### ● Instant Connection

Business networks can be instantly created using the wireless access and WiFi capabilities of the ONECell35. Customers can be connected quickly, and the deployment of the permanent service can then be optimised to lower installation costs. Temporary network access needs, including: outside events and shows, security management and incident centres, construction sites and 'networked transport', can be met with ease creating new revenue opportunities for creative Telco sales teams.

### ● Critical device connection via mobile network

Where line installation involves cost-prohibitive construction expenses, such as in telemetry or remote video surveillance applications, the ONECell35 wireless solution now allows



operators to offer their customers a cost effective, networked solution.

### ● Broadband backup

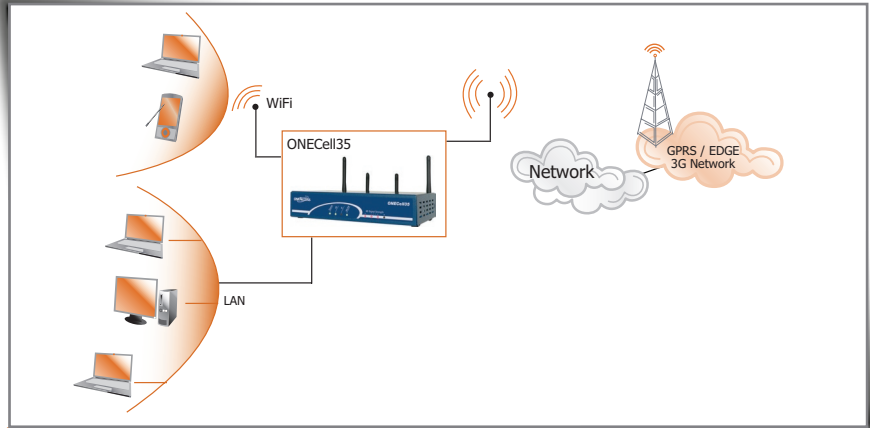
OneCell35 offers a wireless access solution which allows operators to present their customers with an effective backup alternative. Through the use of an entirely separate network infrastructure, this can positively impact service availability, and performance against SLAs.

### ● e-advertising, anywhere

The ONECell35 through its wireless access capability, gives total freedom to end-users to locate and manage digital media displays at any location. By using the 3.5G network, displays can be connected to the media management application without the limitations of wired networks, giving your customers the maximum impact from their content.



Rear View\*



System Architecture

## ONECELL35 SPECIFICATIONS

### Product Architecture

- 2 Ethernet ports
- 10/100 Mbps, half/full duplex with autosensing
- Automatic MDI/MDI-X crossover
- 1 console port (RJ-45, V.24)
- 2 SMA connectors for GPRS/EDGE/W-CDMA antenna
- 2 SMA connectors for WLAN antennas (optional)
- External antenna available

### Wireless Radio Interface

- Quad band EDGE/GPRS (850/900/1,800/1,900 Mhz)
- Dual band HSDPA/UMTS (900/1,900/2,100 Mhz)
- Dual band HSUPA/UMTS (900/1,900/2,100 Mhz)

### WiFi (optional)

- Dual mode IEEE 802.11b/g
- Two antennas
- WMM QoS
- Encryption options: WEP, WPA 1.2 (TKIP) and WPA 2.0 (IEEE802.11i, AES-CCMP)
- WEP Key length: 64, 128 and 256 bits
- Authentication options: WPA-PSK (pre-shared key) and 802.1x with a RADIUS server
- 802.1x authentication via PEAP, EAP-SIM, EAP-TLS and EAP-TTLS

### IP Addressing and Routing

- NAT/NAPT: static/dynamic NAT, NAPT, selective NAT, twice NAT, Application pass-through
- DHCP client, server, relay
- IP helper address
- DNS proxy
- Routing protocols: RIP v1/v2, OSPFv2, BGPv4
- 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

- 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

### IP VPNs

- Tunnels: IPSec, GRE, 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
- DNS server update protocol: DynDNS

### 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

### Management

- Industry Standard Command Line Interface (CLI)
- Web-based configurator
- SNMP v1/v2/v3
- Support of user privileges
- 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

### LED indications

- STATUS
- Radio link
- IP interfaces
- WLAN
- Signal strength (4 LEDs)

### Mechanical data – Power requirements

- Desktop, wall mountable
- Metal housing: W x H x D: 212 x 125 x 42 mm
- Weight: 0,9 Kg
- Operating Temperature: -20°C to +55°C
- 12 VDC, max 1 A
- External power adapters available: Europe or UK

### Conformity to International Standards

All OneAccess equipment carries the CE mark and is conform to all relevant international standards related to safety, electromagnetic radiation, immunity and interfaces

- EN60950-1: 2001
- EN55022: 1998
- EN550024: 1998