

Welbeck Model 71LC 3G/4G Secure Cellular Access Device

Connect, Protect, and Manage Devices over Cellular



- Reliable always-on secure connectivity and remote management.
- Wired Fast-Ethernet and *integrated* multiband 3G/4G cellular.
- Integrated compression and traffic shaping — ideal for video and voice traffic.
- Perfect for machine-to-machine (M2M)/ Internet of Things (IoT) and last mile applications.

- WAN router and LAN bridge. No special network services or configurations required.
- Interoperable with any endpoint device. No software client required on the device.
- Transparent to all Ethernet L2/LAN traffic including VoIP and video, SCADA, PLCs, H.263/H.264, IP Cameras, large files and VLANs/VTP/ISL.
- TLSv1.2 Security with X.509 PKI certs, Perfect Forward Secrecy, AES-256 SHA-1 HMAC encryption. No pre-shared keys. End-to-end security.
- Integrated failover redundancy without VRRP or HSRP.
- Local and remote management tools, including integrated GPS option. Full touch and positive control.



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Device Overview

- Durable plastic enclosure; cool low-power & fan-less operation. Six status LEDs.
- Provides a single transparent point-to-point secure tunnel bridged Ethernet/routed IP link, full-duplex, and transparent operation with up to four server destinations.
- Auto-discovery of tunnel endpoints through NAT/Routers/Proxies.
- Unlimited users. Unlimited host support. Unlimited Networks, Unlimited VLANs, Unlimited Protocols.
- User configurable compulsory tunnel or split-tunnel operation.
- Firewall and ACLs provide granular traffic management as well as protection for Local, Uplink, and each Tunnel.
- AutoConnect™, FastLaneNBX™ and FlexPath™ redundancy.
- Works with Dynamic IP, NATs, and Nested NATs.
- Transparent to all protocols and payloads.

Network Interface

- Dual port 802.3TX Fast-Ethernet, Shielded RJ45 jacks; one uplink (WAN), one local switched (LAN). Auto-sensing all ports.
- Internal full sized SIM card holder.
- Any interface can be used to establish tunnel.
- Dial-on-Demand configuration for cellular standby.

Management & Configuration

- Internal web server management with selectable HTTP/HTTPS port. User configurable admin and monitor passwords.
- SNMP v1 MIB II; User selectable enable/disable, SNMP Variables, Tunnel Status & Tunnel Octet In/Out, Ethernet Status & Ethernet Octet In/Out. SNMP Traps for device and tunnel events.
- Syslog output with configurable server.
- Configuration export/import (encrypted) and system upgrade.
- User VLAN or Definable IP Address and Subnet Mask and Port for management.
- Use with integrated management tools for local or remote management and full positive control.

Regulatory Compliance & Certifications

- NRTL Safety: UL 60950-1, CSA C22.2 No. 60950-1; AS / NZS 3260, TS 001.
- Emissions: FCC Part 15 Class B, EN 55022A.
- CE Mark, RoHS, WEEE.
- FIPS 140-2 compliant version available.

Connectivity and Security





- TLSv1.2 Tunnel operations with AES-256 CBC key encryption; Perfect Forward Secrecy.
- Configurable TCP/UDP tunnel with single port for all control & payload. No-configuration required for NAT and Firewall traversal.
- Dynamic keying and automatic rekeying (user configurable) with X.509v3 certificates (included). Username/Password option for tunnel authorization. Separate per-tunnel password for link authorization.
- Auto-learning with 8,192 MAC address table and unlimited hosts and networks support between LANs.
- Jumbo Ethernet frames with default MTU of 2K. VLAN (4,096) tagging on Client or Server; VLAN trunking out single Ethernet; InterVLAN routing. Will pass VLANs, VTP, & ISL.
- User selectable voluntary/compulsory and tunnel gateway modes through filters. Compulsory dictates all traffic will go through tunnel. No local-to-uplink access. Voluntary tunnel will only ARP for tunnel subnet traffic/hosts. Default Internet access via local router.
- ACL/Firewall permit/allow traffic from any interface. Separate Firewall rules for device access.
- Lossless compression—typical 20%-30% efficiency.
- Integrated DHCP client and server, DNS server, & NTP client.
- RealTimeResource™ DNS services & AutoConnect™ standard. Built in DynDNS client.
- Routed mode supports full IPv4 routing.
- IP-Sharing™ Half-Bridge with Tunnel NAT Permits.

Filtering & Quality of Service

- User configurable L2 and L3 filters on IP/Port or MAC Address. Stateful inspection processing and filtering with new, established, or related operation. Quick access buttons for immediate config.
- DSCP/TOS priority into three queues. E.g. EF = priority queue 0.
- Traffic-shaping prioritizes latency-sensitive traffic (e.g. video).

Operating

- Desktop or wall mounting. Integral Wall mount holes on back.
- 9VDC@500mA power input via coax barrel.
- Operating Temperature: 0° to 50°C Humidity: up to 90% non-condensing.
- 4G SIM card interface FCC, ROHS, PTCRB, IC (North America), CE, GCF (Europe)

		NORTH AMERICAN PRODUCT LINE Q2 2016 (MODEL 500 NOT SHOWN; SPECIFICATIONS MAY CHANGE) INQUIRIES: CALL 855-WELBECK OR EMAIL SALES@WELBECKSECURE.COM					
	NetBlazer Model 7	Model 711W	Model 711C	70 Series (72, 75-01, 78)	Model 770	Model 79R Server	Virtual Appliances
							
Connections	USB, WiFi, Ethernet	Ethernet & WiFi	Ethernet & 3G/4G	4 x GigE; USB	4 x GigE; 2 x USB	6 x GigE	*
Tunnels	1	1	1	1 to 8	1 to 25	1 to 1,000	1,000s
Applications	Indiv/ M2M	Indiv/group/ M2M	Indiv/group/ M2M	Office/ M2M	Office/Small Enterprise	Enterprise/Data Center/Cloud	Data Center/Cloud
Throughput	17-25 Mbps	25-35 Mbps	25-35 Mbps	85 Mbps	150-250 Mbps	1000 Mbps/1Gig	*
AutoConnect™	✓	✓	✓	✓	✓	✓	✓
Integ'd Failover	✓	✓	✓	✓	✓	✓	✓
Remote Mngt	✓	✓	✓	✓	✓	✓	✓
Dimensions	0.6" x 0.9" x 2.6"	3" x 4" x 1"	3" x 4" x 1"	6.5" x 6.5" x 2.0"	9.0" x 6.9" x 1.7"	1RU x 19"	*
Rec'd Users	1 - 3	10 - 20	10 - 20	100 - 250	250+	1000s	*
Power	5VDC@110-140mA	9VDC@500mA	9VDC@500mA	24VDC@250mA	12VDC@1.5A	100-250VAC 35W	*