GoFixed W800

3G/4G ADSL VoIP Wireless Gateway

for HSPA/FDD LTE Networks

Robustel GoFixed W800 3G/4G ADSL VoIP Wireless Gateway is a Dual-WAN 3G/4G/ADSL2+ (VPN) firewall router integrated 3G HSUPA/4G FDD LTE, ADSL/ADSL2+, 802.11b/g/n, **WCDMA/GSM voice** and SIP VoIP/FoIP.

Key Features

● Mobile broadband works as a backup WAN, FDD LTE DL/UL up to 100/50 Mbps, functioning as an automatic fail-over when an ADSL2+ connection breaks down.

● With one RJ-11 FXS interface, users could enjoy excellent VoIP and T.38 FoIP service over ADSL or Mobile broadband.

● Gateway also provides IPsec, L2TP and PPTP VPN, users can access corporate intranet and transmit sensitive data between branch offices and remote sites anytime and anyplace.

● Various dial-up policies, such as always online, auto disconnect cellular when idle, wakeup by local data.

● PPP LCP Echo/Reply and ICMP keep alive for cellular link inspection.

Packing List

● Robustel Gateway
● AC/DC power adapter
● Desktop bracket
● ADSL splitter, RJ45 cable, RJ11 cable
● Document CD

Applications

● **Office in a Box**: provides an office solution to sectors such as mining, construction and emergency services where fixed infrastructure is costly and time prohibitive

● **Data backup and redundancy**: ensure business continuity to retail, banking and emergency services by providing a wireless voice and data redundancy path to guard against fixed line outages

● **Fixed line alternative**: a cost and time efficient solution for broadband and fixed phone services where POTS infrastructure is unavailable

● **Mobile workforce**: event management, consulting and auditing sectors can bring their own wireless branch office (VPN) to a temporary work location

Regulatory and Type Approvals

● Approval and Detective: CE 0700, RCM, RoHS, WEEE

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Specifications

Cellular Interface
- Standards: FDD LTE, HSPA+/HSUPA/HSDPA/UMTS/EDGE/GPRS
- Frequency: Please refer to "**Selection and Ordering Data**"
- SIM/USIM: 1 x (3V & 1.8V)
- Antenna Interface: SMA Female, 50 ohms impedance, 1 x antenna for W800, 2 x antennas for W800-Plus/W800-4G

DSL Interface
- Interface: 1 x RJ11
- ADSL Standards: Full-rate ANSI T1.413 Issue 2, G.dmt (ITU G.992.1), G.lite (ITU G.992.2)
- ADSL2 Standards: G.dmt.bis (ITU G.992.3), ADSL2 Annex L (ITU G.992.3 Annex L)
- ADSL2+ Standards: G.dmt.bis plus (ITU-T G.992.5), ADSL2+ Annex M (ITU G.992.5 Annex M)

ATM and PPP Protocols
- AAL5: ATM Adaptation Layer Type 5
- Multiple Protocol over AAL5: RFC 2684, formerly RFC 1483
- Encapsulation: Bridged or routed Ethernet encapsulation
- Multiplexing: VC and LLC based multiplexing
- PPPoE: PPP over Ethernet (PPPoE, RFC 2516)
- PPPoA: PPP over ATM (PPPoA, RFC 2364)
- IP over ATM: RFC 1577
- MAC Encapsulated Routing: RFC 1483 MER
- OAM: F4/F5

Wi-Fi Interface
- Standards: 802.11b/g/n up to 300 Mbps, AP or Bridge (WDS)
- WPS: Wi-Fi Protected Setup (WPS) for easy setup
- Security: WPA, WPA-PSK, WPA2, WPA2-PSK
- Encryption: WEP 64/128 bits
- Antenna Interface: 2T2R MIMO mode
- Transmission Power: 802.11b: 16+/-1.5dBm, 802.11g: 14+/-1.5dBm, 802.11n: HT20 16+/-1.5dBm; HT40 14+/-1.5dBm
- Reception Sensibility: 802.11b: -82dBm, ±2dB, 802.11g: -68dBm, ±2dB, 802.11n: HT20 -64dBm, ±2dB; HT40 -60dBm, ±2dB
- Others: QoS, ACS, Mac Filter, RF On/Off selection

Ethernet Interface
- Interface: 4 x 10/100 Mbps LANs

VoIP
- Interface: 1 x RJ-11 FXS port for connecting to analog telephone
- Protocol: Compliant with SIP standard (RFC3261)
- Audio Codec: G.711 A/μ law, G.729a, G.723.1, G.726_24, G.726_32, GSM_ARM_12k/10/795/740/670/590/515/475
- Telephone Features: Call waiting/forwarding/baring/blocking, Silence suppression, Voice activity detection (VAD), Comfort noise generation (CNG), G.168 line echo cancellation, Caller ID
- Others: T.38 Fax, DTM, Flexible dial plan customization

WCDMA/GSM Voice (only available with model W800)
- Interface: 1 x RJ-11 (The same port as VoIP RJ-11)

Software
- Network protocols: PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, DMZ, DDNS, Static Routing, IGMP Proxy/Snooping, HTTP, DNS, DNS Relay, ARP, SNTP, ALG, UPnP, QoS
- VPN tunnel: IPSec/PPTP/L2TP client
- Firewall: SPI, IP/Domain/MAC filters
- Management: Web, Telnet, SNMP, TR069, HTTP/FTP/TFTP

System
- LED Indicators: Power, LAN1, LAN2, LAN3, LAN4, Internet, DSL, WiFi, WPS, 3G
- Buttons: Power On/Off, 4G, WPS, Reset

Power Supply Adapter
- Input: AC 100-240V, 50/60Hz, 0.5A, Output: DC 12V, 1.5A

Physical Characteristics
- Housing & Color & Weight: Metal, White, 850g
- Dimension(L x W x H): 170 x 35 x 145 mm
- Installation: Desktop with bracket, wall mount

Environmental Limits
- Operating Temperature & Humidity: 0 to 50°C, 20 to 95% RH
- Storage Temperature: -20 to 70°C

Warranty
- Warranty Period: 1 Year

Selection and Ordering Data

Model No.	Description
W800	HSUPA, DL/UL 7.2/5.76 Mbps, UMTS 850/900/1900/2100 MHz, WCDMA voice and VoIP
W800-Plus	HSPA+, DL/UL 21/5.76 Mbps, UMTS 850/900/1900/2100 MHz, VoIP
W800-4G-01	FDD LTE, DL/UL 100/50 Mbps, LTE 800/900/1800/2100/2600 MHz, WCDMA 900/2100 MHz, VoIP
W800-4G-02	FDD LTE, DL/UL 100/50 Mbps, LTE 700 MHz (B17), WCDMA 850/1900/2100 MHz, VoIP
W800-4G-03	FDD LTE, DL/UL 100/50 Mbps, LTE 700 MHz (B13), CDMA 800/1900 MHz, VoIP

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