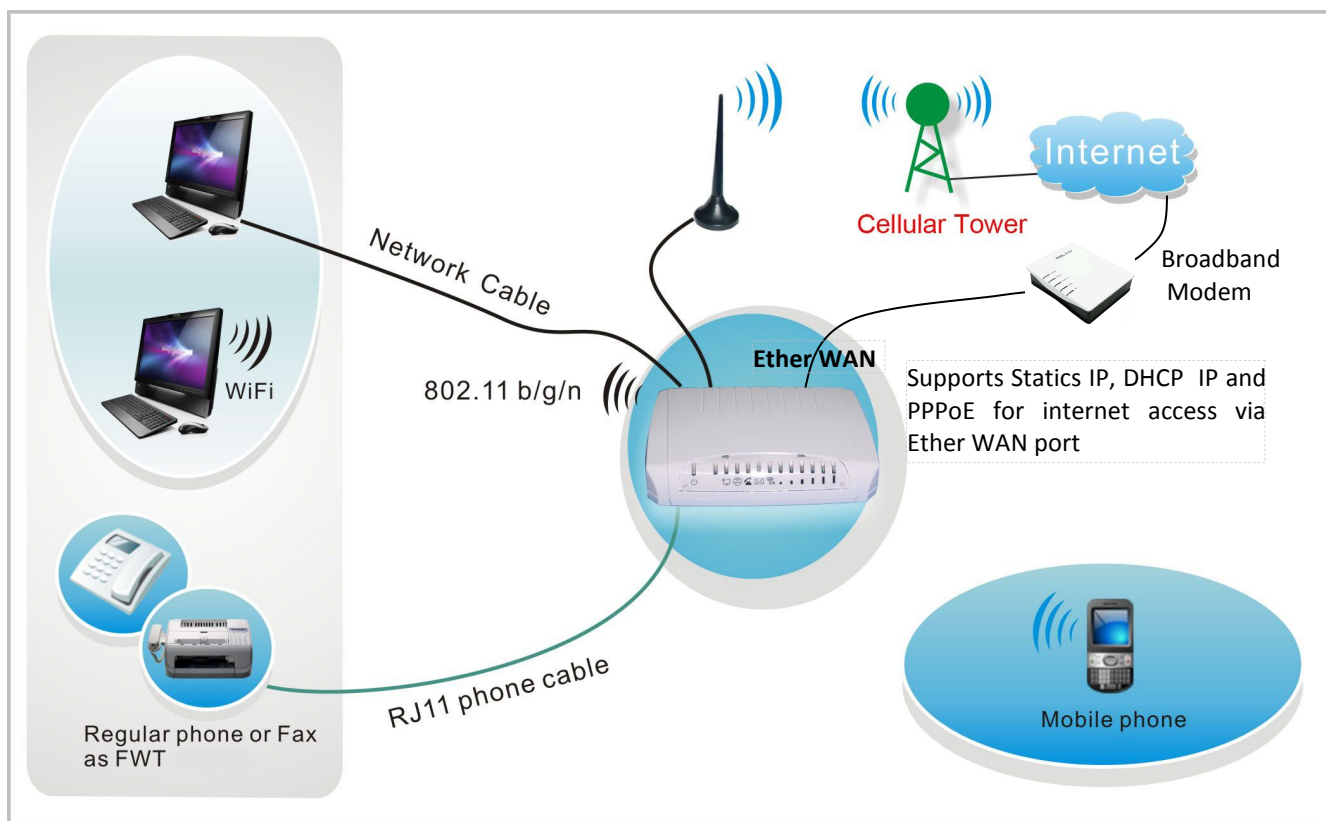


Data Sheet for FWT WiFi AP w/4G LTE (Model : FWT_8300) Wireless Router with Fixed Wireless Terminal, WAN and Internal 4G LTE TD-SCDMA

FWT WiFi AP w/4G LTE is a Wireless Router with WAN port and internal 4G LTE cellular modem for Internet access. It is also a Fixed Wireless Terminal (FWT) using the voice band of the cellular modem while simultaneously access the Internet using the data band of internal modem.

It also offers calling features such as call waiting, call forwarding, call barring, conference call and caller ID, etc. FWT supports **TR-069** management and optional FAX through Fax Relay Server.

Figure Showing the Application Example



General Features

- Internet access over WAN (support DHCP, Static IP, PPPoE) and internal 4G LTE modem
- Fail-over from WAN to Cellular or Load Balance among WAN and Cellular .
- WiFi access point (Internal antenna)
- FWT (Fixed Wireless Terminal)
- Short message SMS
- Built-in TR-069 for Management
- VPN pass-through / VPN client

Calling Features

- Call Waiting
- Call Barring
- Call Forwarding
- Call Conferencing
- Caller ID

Specifications of Internal Cellular Modem

LTE bands

- LTE-TDD Tri-band Band38/39/40
- LTE-FDD Single band Band7
- TD-SCDMA Tri-band Band34/39/40
- GSM Dual-band 900/1800
- EDGE multi-slot class 12
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+
- Output power:
 - - Class 3 (0.25W) for LTE/TD-SCDMA
 - - Class 4 (2 W) for EGSM900
 - - Class 1 (1 W) for DCS1800

Specifications for data:

- LTE-FDD up to 100 Mbps DL, 50 Mbps UL
- LTE-TDD up to 61 Mbps DL, 18 Mbps UL
- TD-SCDMA up to 4.2 Mbps DL / 2.2 Mbps UL
- EDGE class 12: 237kbps DL/118kbps UL
- GPRS class 10: 85.6kbps DL/42.8kbps UL
- CSD up to 14.4 kbps
- Non transparent mode
- PBCCH support
- PPP-stack
- Coding schemes CS 1,2,3,4
- Embedded TCP/IP stack

Wi-Fi Specification

Output Power (Wi-Fi)

- 802.11n:11 dbm
- 802.11g:13 dbm
- 802.11b:15 dbm

Sensitivity (Wi-Fi):

- 802.11n : -68 dBm
- 802.11g : -68 dBm

- 802.11b : -85 dBm

Wi-Fi Frequencies

- 2,4 - 2,462 GHz, CCK / OFDM (Modulation Range Coverage)

Wi-Fi Distances

- Indoor: approximately 30 to 50 meters
- Outdoor: 80 to 100 meters

Compatibility

- IEEE 802.3 10 Base-T Ethernet
- IEEE 802.3u 100 Base-TX Fast Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.11 b/g/n Wireless

Mechanical Specifications

- Plastic Housing with External Connectors
- Dimension (L x W x H): 110 x 155 x 32 mm
- Weigh: 260g
- Operating Temperature : -10°C to +55°C
- Storage Temperature: -20°C ~ +60°C
- Storage Humidity : 5% to 85% of relative humidity (with no condensation)

Connection Interfaces

- WAN Ethernet Interface 10/100 Base-TX, connector RJ-45
- LAN Ethernet Interface 10/100 Base-TX, connector RJ-45
- RJ11 FXS Interface for Handset fixed phone (FWT)
- SMA Connector for **external 5 bands 3G antenna** (50 Ohm - option for **internal 5 bands 3G antenna**)
- Internal SIM Card Reader: Chip SIM CR 3.0V, 1.8V

SMS

- Point to Point MO and MT
- SMS Cell Broadcast
- Support PDU and Text mode

Voice

- Vocoders: 13K, QCELP, EVRC
- Support DTMF

Router Specifications

Firewall

- IP and MAC Filter
- Virtual Server and DMZ

- NAT (Network Address Translation)

VPN

- PPTP , L2TP passthrough
- PPTP , L2TP client

Communication Protocols

- IP, NAT, DHCP, PAP, CHAP, PPP, TCP, UDP, HHTP, NTP, TR-069
(other protocols upon request)

Power Specifications

AC-DC Power Adapter

- Input: 90 to 240 VAC / 0.3A
- Frequency: 50/60 Hz
- Output: 8 VDC / 1 A

DC Input

- Input Voltage Range: 6 to 12 VDC
- Input Power: 8 W
- Input Connector: J4 (internal positive)

*Specifications are subject to change without notice.

Product Name	Model	Description
FWT Wifi AP	FWT_226	built-in HSPA+ modem MF226 (1xLAN, 1xWAN,1x3G, 1xwifi ,1x RJ11)
	FWT_8300	built-in LTE modem for China (1xLAN, 1xWAN,1x3G, 1xwifi ,1x RJ11)
	FWT_8301	built-in LTE modem for Asia
	FWT_8620	built-in LTE modem (Bands for EU ,Aisa , America) (1xLAN, 1xWAN,1x3G, 1xwifi ,1x RJ11)

Figure showing the Interfaces

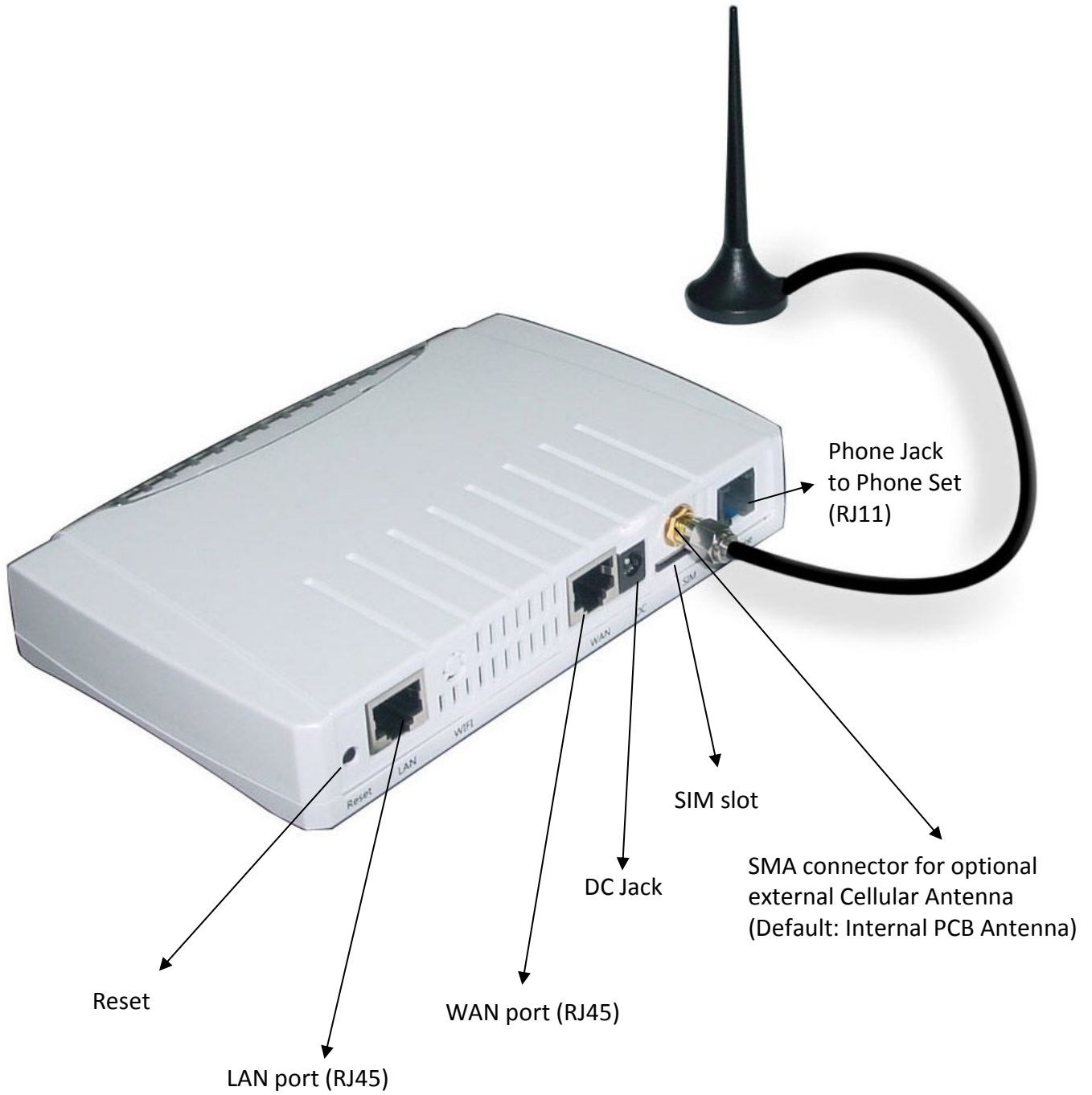


Figure Showing the LEDs

