



TOPEX Bytton

All-in-one device for SOHO applications

3G+ Wireless Router

Integrated management switch

VPN and tunneling support

Plug and Play



Different versions available

- TOPEX Bytton GPRS
- TOPEX Bytton EDGE (GPRS)
- TOPEX Bytton CDMA 1x / EVDO
- TOPEX Bytton HSDPA (UMTS/EDGE/GPRS)
- TOPEX Bytton HSUPA (HSDPA/UMTS/EDGE/GPRS)

Double Wireless Router - professional multitasking device that offers one voice line (telephone or exchange) connectivity and Internet access for a local computer network (cabled or wireless) using the public land mobile networks.

Benefits

- Assures cost reduction for calls by converting fixed-to-mobile calls into mobile-to-mobile calls from the same network.
- Wireless Internet access pays off in terms of business opportunities.
- 3G advantage: Simultaneous voice and data:
 - Voice calls can be placed during data sessions.
 - No busy tone while browsing Internet.
- Instant Public Hot Spot
- Provides high overall protection.

Main Features

- **Double wireless Router family:**
 - Wireless WAN: GPRS, EDGE, UMTS, HSDPA, HSUPA, CDMA 1x RTT, CDMA 1xEVDO
 - Wireless LAN: WiFi
- **All-In-One equipment**
 - Voice interface and Internet access
 - Analog voice interfaces: FXS and FXO
 - VPN Router-Virtual Private Networks router functionality.
 - Management switch - allows VLAN tagging and Layer 2 QoS according with 802.1p and 802.1q
 - Firewall - acts as a packet filter applying security policies.
 - LAN Server-it assigns IP addresses to client computers in the local network.
 - Video Surveillance Server.
 - WiFi Access Point - acts as a bridge for wireless computers.
 - SMS gateway - can send and receive SMS from the administration web page.
- **Plug-and-Play functionality**

Features

- DHCP Server, DNS, DDNS
- PPP, PPPoE connections
- Advanced routing capability
- Routing protocols: RIP, OSPF, Unix based Quagga software
- Secured communications:
 - Port forwarding
 - DoS - Denial of Service
 - Stateful Packet Inspection
 - MAC address filtering
 - DMZ - Demilitarized Zone
 - VPN tunneling and pass-through for VPN
 - Secured web access
 - SHA, MD5, PAP, CHAP authentication
 - IP Sec, PPTP, GRE tunneling
 - WEP, WPA encryption using DES, 3DES, AES, TKIP
- Send and receive SMS through the web based interface
- Accurate remote billing (for hotspot application): The supported RADIUS protocol is widely used for centralized authentication, authorization and accounting (AAA) of remote /distributed users.
- Real time log files verifications
- NTP protocol used for update of the system local time
- Displays the signal level for the 3G network, IMSI, IMEI

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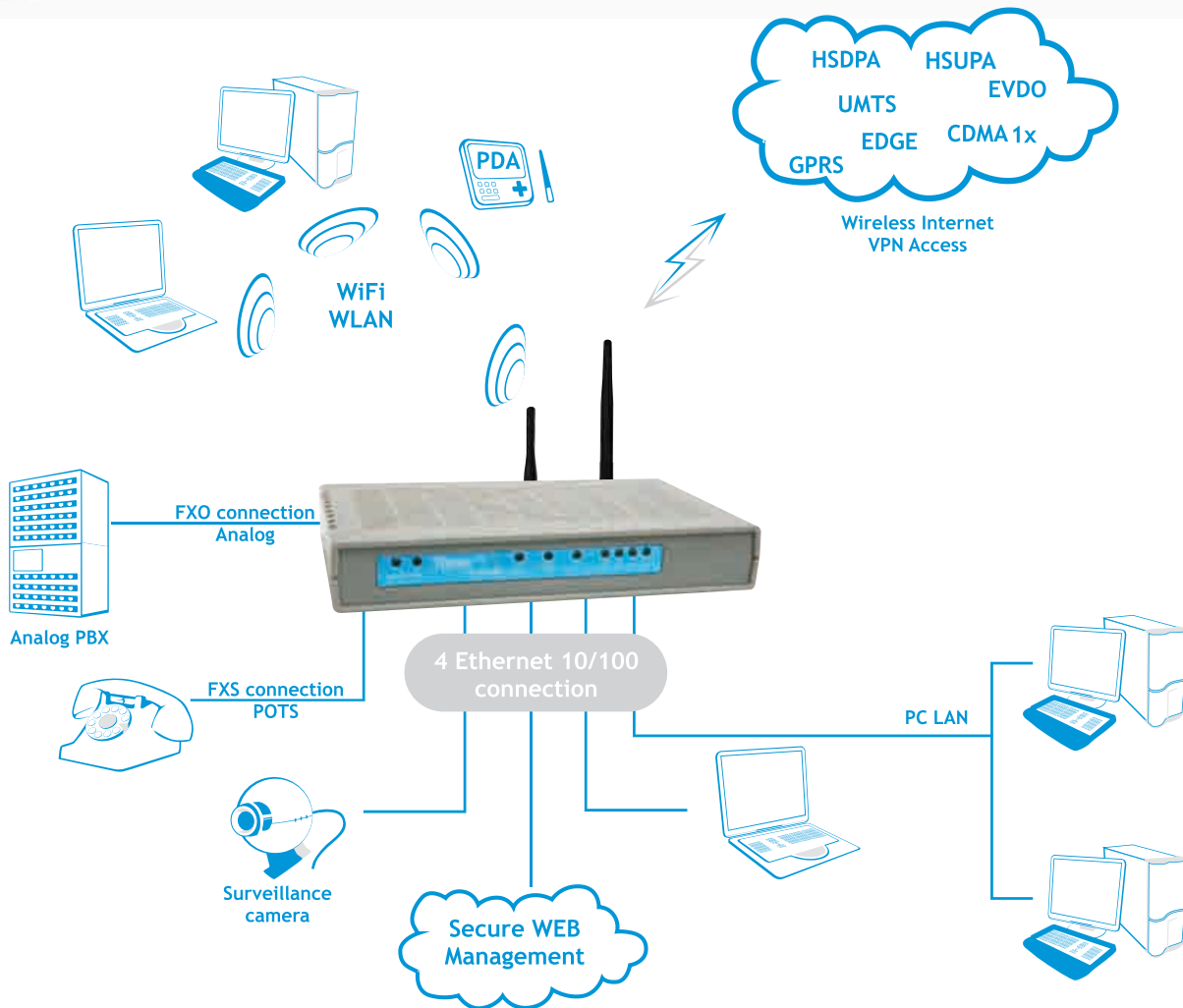
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Applications

- **Enterprise Wireless VPN for remote Point-of -Presence:**

- Wireless secure VPN and/or Internet access for temporary /mobile /remote Points of Presence.

- Wireless video surveillance.

- **Small and Medium size Companies:**

- Wireless Internet access and Wireless LAN server.

- Voice cost optimizer tool for fixed to mobile call

- Automatic back-up for broadband Internet connections.

- **Seasonal Point-of-Presence and one time events and conferences.**

- **Public Place WIFI Hotspot:**

- Prepaid and postpaid wireless Internet access for tourists and clients.

- Perfect for conference halls, Hotels, Coffee-shops and Restaurants.

- Airports, train-stations.

- In-vehicle Internet access: trains, coaches, limos, inner water sailing.

- **Wireless Machine - to - Machine applications.**

Technical Specifications

Cellular networks:	Tri Band UMTS/HSDPA/HSUPA - 850 / 1900 / 2100 MHZ Quad Band GSM/GPRS/EDGE 850/900/1800/1900 MHZ CDMA 1x / EVDO 450 / 800 MHZ
Ports:	- 802.11b/g Wireless LAN Access Point, up to 256 wireless clients supported - 2 x USB 2.0 - 4 x Fast-Ethernet 10/100 Base-T for LAN connections (RJ-45 ports with auto-crossover) - 1 x Fast-Ethernet 10/100 Base-T port for WAN connection - 2 x Voice ports - FXS and FXO (POTS or PBX outbound line)
Software:	PPP Client/Server, transparent DNS proxy, IP PNP, DHCP Server, Dynamic DNS Client, call-back (Remote connection activation via SMS or ring), configuration via Web browser, fast start-up, Linux Operating System
100% Plug and Play:	- embedded server for dynamic IP configuration of the clients (DHCP) - embedded server for static IP configuration of the clients (IP-PnP) - embedded transparent HTTP/HTTPS proxy - automatic e-mail server redirection - web based interface
Hotspot Service:	- allows immediate creation of wireless Internet hotspots - dual mode login allows users to use either an account or a PIN from a prepaid card - automatic injection of e-mail with login instructions for new users - RADIUS based authentication and accounting
Video Surveillance Service:	- allows video monitoring using either a USB web camera or an IP camera - web based viewer of the video stream - supports multiple cameras
Routing and remote management:	- RIPv1, RIPv2, OSPF - HTTPS web access - Secure, remote management using SSH - Automatic connection establishment on traffic detection - Automatic disconnection on lack of traffic - Full network address translation (NAT) support

Tunneling:	IPSec, PPTP, GRE DES, 3DES, AES encryption WEP, WPA, WPA2 PAP, CHAP, MD5, SHA1 authentication
SMS Service:	- call back function (voice, SMS) - send and receive SMS through the web page - SIM information display (signal level, network registration)
Max. transmitter power:	UMTS / HSPA - Power Class 3 +24dBm GSM/GPRS/EDGE 850/900 MHz - Power Class 4 +33 dBm GSM/GPRS/EDGE 1800/1900 MHZ - Power Class 1 + 30dBm EDGE E2 Power Class
Voice coding:	AMR(12.2kbps / 10.2kbps / 7.95kbps / 7.4kbps / 6.7kbps / 5.9kbps / 5.15kbps / 4.75kbps)
Advanced call management features:	Can be set for CLIP(ETSI FSK or DTMF) and CLIR
Dial tone:	440 Hz +/- 10%
Line voltage:	48 V +/- 10%
Line current:	30 mA max.
Ring signal:	25 Hz, min. 60 Vef
Line impedance:	600 Ohm
Mobile network antenna:	SMA male interface External quad-band antenna with magnetic base and 2.5 m cable 2 dB gain
WiFi antenna:	External stick antenna for 2,4 GHz
Analogue FXS Voice Port:	RJ 11 connector
Analogue FXO Voice Port:	RJ 11 connector
Data Ports:	5 x RJ-45 ports for LAN and WAN
Power supply:	Adapter 230V ac, 50Hz, 0.3A to 10V ac @ 1.5A
Status indicators:	LEDs, for POWER, WiFi and network, plus one LED per each LAN or WAN port.
Temperature range:	Operating: 5 to 50 degrees C Storage: 0 to 60 degrees C
Dimension (L x W x H):	248 x 170 x 53 (mm)
Weight:	800 g
Humidity:	10-80 %, non-condensing