

# Bytton LTE

## Intelligent Services Gateway

100 Mbps downlink on LTE  
Dual SIM for mobile redundancy  
Enterprise and Industrial versions  
Remote control and monitoring  
Rugged metal case

Bytton family is an intelligent services platform which provides high data transfer rates over LTE/3G+ Networks.

Suitable for mission critical applications such as multi facility corporate connectivity, professional backup and M2M applications.

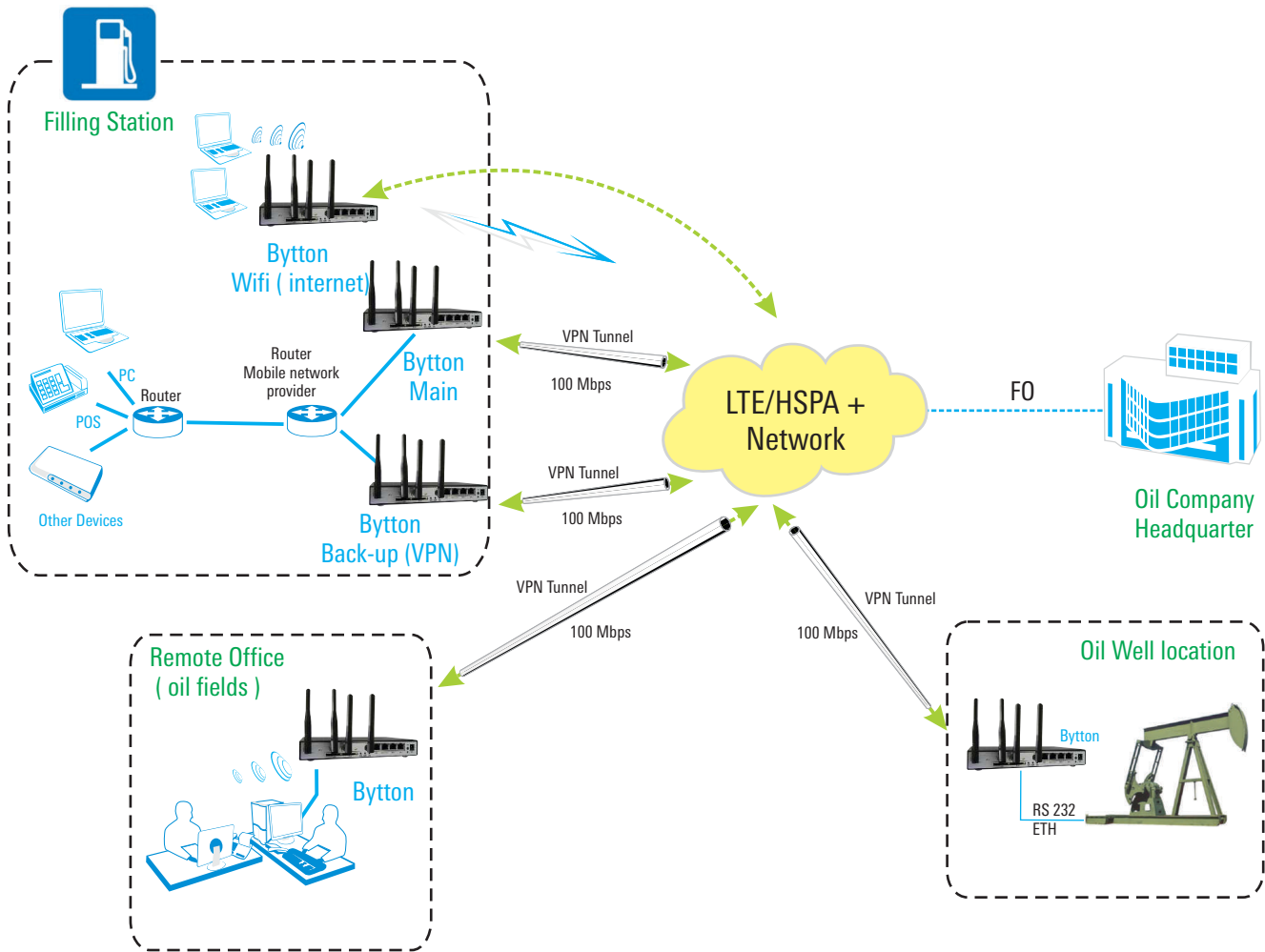
Bytton LTE Intelligent Services Gateway includes a large range of communication interfaces and protocols including backward capability 3G+, 3G & 2.5G network coverage, WAN, WiFi and RS232/RS485



## Benefits:

- Dynamic routing
- Backward compatibility from LTE/HSPA+ to GPRS
- Secure communications through embedded VPN tunnels: IPSec, PPTP, GRE, Open VPN
- Over 20 x IPsec tunnels
- Broadband and mobile
- Traffic marking and shaping: Layer 2, Layer 3 and Application Layer

# Application:



# Technical specifications:

Cellular networks	
LTE	800/900/1800/2100/2600 MHz(EMEA) or LTE 7000 MHz(NA)
HSPA	850/900/1900/2100 MHz
EDGE/GPRS/GSM	850/900/1800/1900 MHz
CDMA	800/1900 Mhz (NA version)
Hardware interfaces	
LAN	3 x 10/100 Base-T ports (RJ45 connectors) Integrated switch with management and Layer 2 QoS according with 802.1p, 802.1q
WAN	1 x 10/100 Base-T port (Rj45 connector) a second port from LAN ports can be configured as WAN 2
SIM	2 slots for the SIM cards
Serial	RS232/RS485 ports - RJ45 connectors ( optional )
Reset	Reset button
Antenna connectors	Cellular and WiFi connectors
Cellular antennas	2 x Magnetic base Gain: 2dBi Polarization: vertical Cable: RG174, length 2.5m
Status indications	LEDs for RF signal, data link, power supply, LAN and WAN Ethernet ports

Data transfer rates		
LTE	Downlink	100 Mbps
	Uplink	50 Mbps
DC - HSPA	Downlink	42 Mbps
	Uplink	5.76 Mbps
HSPA+	Downlink	21 Mbps
	Uplink	5.76 Mbps
HSUPA/HSDPA	Downlink	7.2 Mbps
	Uplink	5.76 Mbps
HSDPA	Downlink	3.6 Mbps
	Uplink	384 Kbps

VPN & Security	
GRE	Client
PPTP	Client
Open VPN	Client, TUN or TAP, UDP or TCP
IPSec	Host to host IPSec, Network to network IPSec, Road Warrior IPSec, Termination of two or more IPSec tunnels
Encryption protocols	DES, 3DES, AES
Encapsulation	ESP
Identity authentication of peers	Symmetrical PSK – Pre Shared Key Non symmetrical Public RSA
Authentication algorithms	MD5, SHA1
Keys security	PFS – Perfect Forward Secrecy Diffie Hellman algorithm IKE mechanism

Network features	
Routing	Static
	Dynamic – RIPv1, RIPv2, OSPF, BGP
	Virtual routing tables
Firewall	NAT, PAT
	IP Tables
	MAC Address filtering
	ACL – Access Control List
	SPI – Stateful Packet Inspection
DHCP	DHCP Server and DHCP relay
DNS	DNS Server
	DDNS (Dynamic DNS)
ETH	Configurable MTU
PPPoE	Point to Point Protocol over Ethernet
VRRP	Virtual Router Redundancy Protocol
NTP	Client

OoS	
Packet marking	VLAN or IP: TOS, DSCP
Scheduling algorithms	WFQ, CB-WFQ, WRR, DWRR

WiFi	
Standards	IEEE 802.11 b/g/n
Operation modes	Access Point, Station, Bridge
Connection modes	Infrastructure, Ad- Hoc
Security	WEP - 64 or 128 bits
	WPA, WPA2 - PSK or PSK2 crypto
	TKIP, AES
	MAC filtering

Bytton Management Server	
Remote secured web access	Web based administration and configuration interface single or group provisioning
Local & Remote access	CLI, SSH, Telnet, Web
Remote Monitoring	SMS – equipment and data link status, SNMP, E-mail
Scheduled operations	Automated service management task
Firmware update	Local and Remote, single or group, OS or module
Return to factory defaults	Software and hardware options

Processing Power	
Processor	32 bit RISC
Memory controller	16/32 bit DDR 2
RAM memory	256 Mb DDR2 SDRAM (2 x 128)
Core frequency	266/333/400/417 MHZ
I-Cache/D-Cache	16K/16K

Power Supply	
Power Supply Adapter	Input 100÷240 Vac, max 1A @ 50-60 Hz Output: +12Vdc @ 2A
Power Output	Max 24W
Optional	Car kit adapter 9 - 48 Vdc input

Chassis	
Dimensions (H x W x D)	30 x 210 x 140 mm
Weight	Max 800g
Installation	DIN - Rail mounting or surface mounting option
Material	Metal case

Environment Conditions	
Standard Operating Temperature	0 to +70° C
Optional Operating Temperature	-25 to +75° C
Optional Operating Temperature	-30 to +80° C
Storage Temperature	-40 to +85° C max @ 96 hours maximum
Humidity	0 to 95%, non - condensing

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