

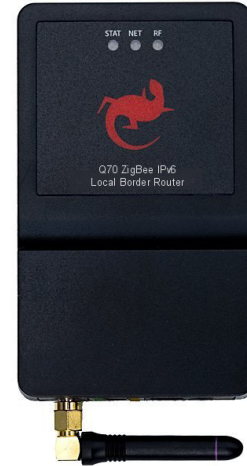


Q70 IPv6 Local Border Router

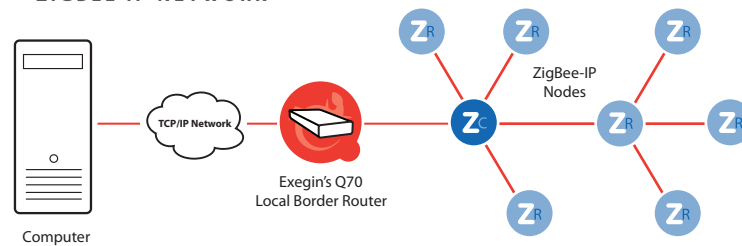
ZIGBEE IPV6 CONNECTIVITY

overview

The Q70 is a compact ZigBee-IP border router, designed to seamlessly forward IPv6 traffic between the outside world on an Ethernet link and a ZigBee-IP wireless network. The Q70 uses the BSD network stack and Exegin's tested ZigBee-IP components to provide one of the most reliable ZigBee-IP border routers available today. A customizable web-page interface, through an on-board HTTP server, allows for easy network configuration and viewing of important diagnostic information.



REMOTELY ACCESSED ZIGBEE IP NETWORK



To other nodes in the PAN, the Q70 appears as an edge router





Q70 IPv6 Local Border Router



SPECIFICATIONS

■ SYSTEM REQUIREMENTS

- Web Administration: Internet Explorer 6.0 or Mozilla Firefox 1.0 (or later)
- Gecko Installation Tool: Windows XP, Vista, Windows 7. Installation may also be done from any command line capable of running Telnet

■ DIMENSIONS

- Metric – 65mm W x 23.5mm L x 111mm D
- Imperial – 2.55" W x 1.925" L x 4.4" D

■ WEIGHT

- Device – 105g / 4 oz.
- 110VAC Power Supply – 83g / 3 oz.
- 220VAC Power Supply – 94g / 3.5 oz.

■ POWER SUPPLY

- Available with external DC power supplies for most voltages and frequencies (120V / 60Hz – 220V / 50Hz)
- IEEE 802.11af Power Over Ethernet

■ ENVIRONMENTAL

- 0°C – 50°C operating
- -40°C – 85°C storage
- 95% maximum humidity, non-condensing

■ REGULATORY CERTIFICATION

- USA: FCC Part 15
- Canada: IECS-003
- EU: CE Mark

■ WARRANTY

- 1 year parts and labour



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FEATURES

■ HARDWARE

- 10/100 Ethernet port
- 2.4GHZ 802.15.4 radio
- External antenna (RP-SMA male)
- Power: 6VDC barrel jack or Power over Ethernet (PoE)

■ FEATURE SET

- Web-page User Interface – layout and company logo can be easily changed
- Telnet User Interface – provides various diagnostic commands (e.g “ping6”)
- User password authentication (two accounts “root” and “guest”)
- Upgradable
- Dual IPv4 and IPv6 support on the Ethernet side
- DHCP/IPv4 client on Ethernet side
- DNS Resolver
- TLS 1.2
- Multicast forwarding in and out of ZigBee-IP networks
- Simple web-client for testing a ZigBee-IP network and/or Smart Energy 2.0
- HTTP/S Server – can be accessed from Ethernet and ZigBee-IP networks
- Simple commands to listen and/or send data on UDP or TCP ports for testing ZigBee-IP networks
- BSD Stack
- ZigBee-IP Stack:
 - 6LoWPAN Compression – supporting the latest compression scheme
 - 6LoWPAN Neighbor Discovery – supporting address registration and Unreachability Detection
 - Routing Protocol for Low power and Lossy Networks (RPL) – supporting RPL source-routing and objective functions 0 and 1
 - Mesh Link Establishment protocol (MLE)
 - PANA Authentication Server – supporting PSK and Certificate based authentication
 - Meshed Multicast Forwarding using the trickle-multicast mechanism