WSN802G E-Series Wi-Fi Radio Module

Enterprise Security Features

2.4 GHz Low Power Wi-Fi Radio Module

Discontinued

Overview

The WSN802G E-Series are a low cost pre-certified WiFi 2.4 GHz radio transceiver modules with a comprehensive set of enterprise security features that enables the radio modules to be used easily in applications which require enterprise security when interfacing to corporate Wi-Fi networks, enabling robust encryption, authentication and security protection. The WSN802 E-series radio modules interface seamlessly to existing Wi-Fi 802.11 b/g/n network infrastructure.

The WSN802G E-series modules are ideal for applications that enable devices, machines and other systems to connect directly to the internet for a broad range of machine to machine (M2M) applications including medical, industrial controls, commercial automation and many others areas where enterprise secured Wi-Fi is a must.

With Wi-Fi to serial transmission, any unformatted data is transparently sent via the serial interface over the Wi-Fi network to a fixed IP address / port and vice versa, without the need for any additional formatting. The full TCP/IP stack on the module places less burden on the host applications and simplifies the design and development cycle

The WSN802G E-Series radio modules implements IEEE 802.1x features:

- Integration with RADIUS Authentication Server to allow administration, auditing and logging and allowing for centralized management of user credentials
- Uses an Extensible Authentication Protocol (EAP)
- Certificate Authentication - blocks hackers trying to infiltrate corporate networks
- Differing Encryption key in every packet offers robust security
- Includes Full TCP / IP stack on the module



OTHER FEATURES INCLUDE:

- Data rates from 1Mbs to 11Mbs
- WPA2
- Transparent Serial to Wi-Fi transmission
- TCP client/server support
- Ad Hoc and Infrastructure modes
- UART interface
- FCC, ETS and Canadian IC Certified

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SPECIFICATION	
Radio Characteristics:	IEEE 802.11b/g
Frequency:	2.4 – 2.474 GHz
Transmit Power:	10 mW
RF Data Rates:	1,2,5.5, 11 Mbps
Receiver Sensitivity:	-92 dBm at 1 Mbps; -81 dBm at 11 Mbps
Data Encryption:	AES-128
Enterprise Security	EAP-TLS, EAP-TTLS, EAP-FAST, EAP-PEAP, MSCHAP, GTC
Network:	UDP, DHCP, DNS, ARP, TCP, SNMP
Environmental:	-40 °C to +85 °C , 10 - 90% humidity, non-condensing
Power Supply:	3.3 to 5 VDC
Dimensions:	1.05 x 1.04 inches (2.67 x 2.50 mm) for WSN802GC 1.05 x 1.10 inches (2.67 x 2.89 mm) for WSN802GP Pinned and Surface Mount Versions
RF Connection:	U.FL Coaxial Connector, Chip Antenna
Interface:	UART
Certification:	FCC, Canadian IC and ETSI certified

HOW TO BUY

Murata products are sold through a world-wide network of manufacturer's reps and distributors. Go to the Murata website at www.Murata.com and visit the "How to Buy" section to locate a sales / distribution partner near you.

Part Number	Description
WSN802GP-E	Wi-Fi Module - Pinned Version
WSN802GPA-E	Wi-Fi Module - Pinned Version, Chip Antenna
WSN802GC-E	Wi-Fi Module – Surface Mount Version
WSN802GCA-E	Wi-Fi Module – Surface Mount Version, Chip Antenna
WSN802GADK, WSN802GADK-A	Developer's Kit, chip antenna, option with pre-configured AP
WSN802GDK, WSN802GDK-A	Developer's Kit, option with pre-Configured access point