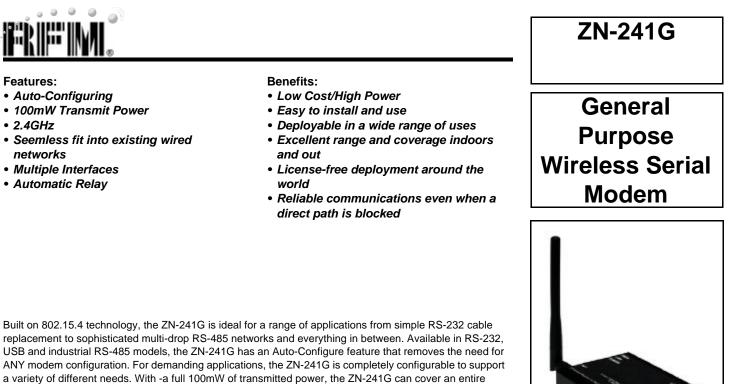
DEVELOPER KIT (Info: <u>click here</u>)



Radio Specifications

factory floor or bridge distances of a mile or more outdoors.

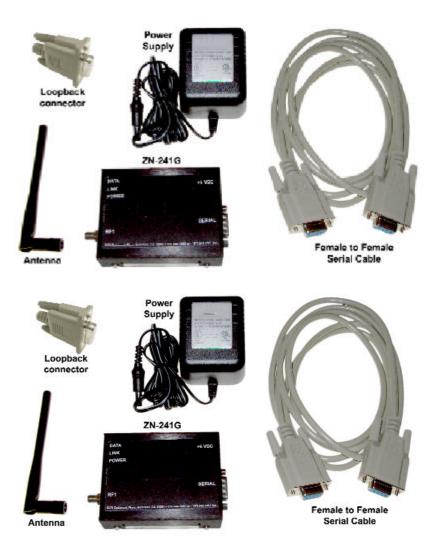
RF Frequency	2401 - 2483.5 MHz		
Spreading Technique	Direct Sequence Spread Spectrum		
Modulation	O-/QPSK		
Transmit Power	+18 dBm at antenna connection; 100mW with 2dBi dipole antenna (included)		
Receive Sensitivity	-95 dBm for 10-5 BER		
RF Channels	16 User selectable		
RF Data Rate	250 Kbps		
Antenna Connector	Reverse SMA Male		

Electrical Specifications

-	
Operating Voltage	6VDC - 12VDC
Power Consumption	2W Max peak; 750mW typical
Operating Temperature	-40°C to +85°C
Serial Interfaces	ZN-241G — RS-232 ZN-241GU — USB ZN-241GI — RS-485 half-duplex
Indicators	Power Link Activity

Mechanical Specifications

	ZN-241G	ZN-241GU	ZN-241GI	
Case Materials	Black Anodized Aluminum			
Dimensions (mm)	82.5mm x 64.24mm x 25.5mm			
Weight	122g			
Data Connector	DB9	USB Type B	Screw Terminals	
Power Connector	DIN Connector		2 Terminal Connector	



Value

Even with the high transmit power, the RFM ZN-241G is priced to fit any budget, making the choice to replace wires even more compelling. With the multiple interfaces and multiple operating modes, the ZN-241G delivers unsurpassed value for any application. The ZN-241G is built on standard 802.15.4 radio technology and provides a crisp 250Kbps over-the-air data rate using Direct Sequence Spread Spectrum methods. The result is a wireless network with plenty of data throughput for most applications and the robustness to provide reliable, worry-free data transmission.

Versatility

Operating in the international license-free 2.4GHz frequency the ZN-241G can be deployed around the world. With the choice of an RS-232, a USB or an RS-485 interface, the ZN-241G has a model to fit almost any application. The Auto-Configure feature makes setting up point-to-point links a snap. The broadcast mode coupled with the RS-485 interface, provides a simple replacement for half-duplex, multi-drop RS-485 wiring. The ZN-241G also has a fully-addressable multi-point mode to support more demanding applications. Whatever your need, the ZN-241G can handle it.

Even though the ZN-241G is a low cost wireless modem, it includes a repeater function to help overcome signal blockages. This function allows a remote node to relay data through another remote node when the direct path is blocked. Similarly, a remote node can receive data through another remote node when the direct path from the base is blocked.