











# Low Power 802.11n Wi-Fi modules



## Highly integrated single stream 802.11n modules

The Connect-io-n(TM) products are highly integrated single stream 802.11n modules designed to provide future-proof 'plug-and-play' Wi-Fi connectivity to embedded devices. They feature Serial or SPI interfaces to a host microcontroller and include all the functionality required in a WLAN client. Some device variants also include a full networking stack running on the embedded processor within Redpine's chipset, enabling network connectivity into numerous existing embedded systems with no additional burden on their microcontrollers.

Part Number	Interface	Integrated Antenna	Frequency Band	Integrated TCP/IP	Size (mm x mm)
	<b>RS9110-N-11-21</b>	UART Interface	2.4 GHz (802.11b/g/n)	NO	22.0 x 28.0
	-01	SPI Interface			
	-02	UART Interface			
	-03	SPI Interface			
	<b>RS9110-N-11-22</b>	UART Interface	2.4 GHz (802.11b/g/n)	YES	22.0 x 28.0
	-01	SPI Interface			
	-02	UART Interface			
	-03	SPI Interface			
	<b>RS9110-N-11-23</b>	UART Interface	N/A	NO	12.9 x 13.7
	-01	SPI Interface			
	<b>RS9110-N-11-24</b>	UART Interface	N/A	YES	12.9 x 13.7
	-01	SPI Interface			
	<b>RS9110-N-11-25</b>	UART Interface	2.4 GHz & 5 GHz (802.11a/b/g/n)	NO	28.0 x 40.0
	-01	SPI Interface			
	-02	UART Interface			
	-03	SPI Interface			
	<b>RS9110-N-11-26</b>	UART Interface	2.4 GHz & 5 GHz (802.11a/b/g/n)	YES	28.0 x 40.0
	-01	SPI Interface			
	-02	UART Interface			
	-03	SPI Interface			
	<b>RS9110-N-11-27</b>	UART Interface	N/A	NO	17.5 x 20.0
	-01	SPI Interface			
	<b>RS9110-N-11-28</b>	UART Interface	N/A	YES	17.5 x 20.0
	-01	SPI Interface			

SYMMETRY



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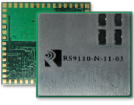
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# Low Power 802.11n Wi-Fi modules



**Targeted for high throughput/ultra low power applications**

Modules integrate the 802.11n MAC, baseband processor, RF and Power Amplifier, and include a SDIO/SPI based single or dual-band WLAN client, with Access Point option

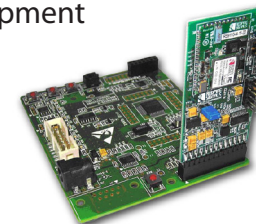
Part Number	Frequency Band	Host Interface	Host Processor Requirements	Drivers Available	Size (mm x mm)
 <b>RS9110-N-11-01</b>	2.4GHz	SDIO, SPI	WLAN STACK, TCP/IP	Windows Embedded CE Windows Mobile Windows XP Linux OS	9.5 x 7.5
 <b>RS9110-N-11-02</b>	2.4GHz	SDIO, SPI	WLAN STACK, TCP/IP	Windows Embedded CE Windows Mobile Windows XP Linux OS	13.7 x 12.9
 <b>RS9110-N-11-03</b>	2.4GHz, 5GHz	SDIO, SPI	WLAN STACK, TCP/IP	Windows Embedded CE Windows Mobile, Windows XP Linux OS	20.0 x 17.5

## Low Power Wi-Fi Starter Kits with external MCU board

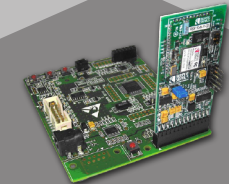
- Pre-programmed demo application can associate to any Open Access Point of your choice
- Full demo application source code included to facilitate custom changes easily and quickly
- RS9110-N-11-22 module with 802.11n, integrated antenna, frequency reference and TCP/IP stack

Everything required to begin development with Wi-Fi connectivity in one box:

- Wi-Fi board
  - MCU board
  - Power supply
  - USB cable
  - Debugger
  - CD-ROM
- (SHOWN: Renesas R8C/25 MCU board)



## VERTICAL INTEGRATION MODEL



**RS-R8C25-2200  
MCU KITS**



**RS9110-N-11-22  
Connect-io-n**



**RS9110-N-11-02  
n-Link**



**RS9110  
CHIPSET**