

Features

- ISM (Instrumental, Scientific and Medical) Band 2.405-2.48 GHz Operation
- Complete IEEE 802.15.4 Specification Compliant
- High adaptability: supports MiWi™, ZigBee™ and Proprietary Protocols
- Easy access to the AT command interface through an application software
- USB V2.0 Compliant Serial Interface Engine
- Low Speed (1.5Mb/s) and Full Speed (12Mb/s) Compatible USB Serial Interface Engine
- On-Board Voltage Regulator: Dongle entirely powered from the USB Bus
- On-Board Microchip's PIC18F66J50 Microcontroller
- No need to develop USB drivers or RF design experience or expertise

2.4GHz USB Dongle

The 2.4GHz USB Dongle, by integrating the Microchip's MRF24J40 RF Transceiver, supports a wide range of applications that require wireless communications over the 2,405 - 2,48GHz ISM Band.

The 2,4GHz USB Dongle provides an easy way of integrating MiWi™, ZigBee™ or even Proprietary Protocols into personal computers, gateways or bridge devices. This solution is ideal to be used for the establishment of networks in which the dongle may be configured to act as the coordinator, router or a simple end device.





Intelligent Sensing Anywhere

2.4GHz USB Dongle

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Applications:

Home security and alarm
Remote control
Telemetry
Process Access and Building Controls
Home automation
Home appliances' interconnections
Automated meter reading
Automated meter reading
Industrial automation
Wireless sensors
Remote data logging
Remote telemetry
Personal Area Network
PC peripherals

Application Example

The 2,4GHz USB Dongle enables the replacement of serial links used for example for the connection of sensors to computers especially for monitoring purposes. Applications in which cable installation and maintenance may be difficult can certainly benefit from the use of the 2,4GHz USB Dongle. Data is directly transferred to the computer through the Dongle.

Radio Specification

- Frequency Band: ISM Band 2.405 - 2.48 GHz
- Antenna: external, SMA
- Output Power: +0 dBm Typical Output Power
- Sensitivity: -91 dBm Typical Sensitivity

Physical Specification

- Dimensions:
• L6,39mm × W2,54mm × H1,27mm (Including USB plug and excluding external antenna)
- Weight: < 30g

Software Specification

- USB Driver Support for Windows 98/2000/XP/Vista

Operating Range

- Operating Temperature: -10 °C to 65°C



Product in conformity with the ETSI 300386 norms; EN 55022 and EN 61000, according to the requirements of the Directive EMC 89/336/CEE, altered by Directives 92/31/CEE and 93/68/CEE.

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