

MiNePort W1 Series Quick Installation Guide

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Overview

The Moxa MiiNePort W1 series is an embedded serial-to-WLAN module that allows you to connect serial devices to the wireless Ethernet without dealing with the complexities of RF.

The MiiNePort W1 series supports and is compliant with the 802.11b/g radio specification.

Package Checklist

The MiiNePort W1 series Starter Kit contains the following items:

- 1 MiiNePort W1 series wireless module
- MiiNePort W1 evaluation board
- Antenna - ANT-WDB-ARM-02
- Antenna - CRF-MHF/SMA(M)-14.2
- 1 cross-over Ethernet cable
- 1 null modem serial cable
- Universal power adaptor
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

Hardware Installation

Follow these steps to prepare the module and evaluation board for testing and application development.

- STEP 1:** Plug the module into its socket on the evaluation board. For detailed information about the pin assignments, wiring, LED indicators, and board layouts, refer to the MiiNePort W1 series User's Manual.
- STEP 2:** Connect the evaluation board to the Ethernet network using an RJ45 Ethernet cable.
- STEP 3:** Plug the 12 VDC power line into the evaluation board's power jack.
- STEP 4:** Connect a serial device to the evaluation board using a serial data cable.

Software Installation

- STEP 1:** Open NPort Search Utility to begin installation. A **Welcome** window will appear. Click **Next** to proceed.
- STEP 2:** Click **Install** to install the program files in the default directory.
- STEP 3:** The installation wizard will show the progress of the installation as the files are installed.
- STEP 4:** After the files have been installed, click **Finish** to complete the installation.

Module Configuration

STEP 1: Run NPort Search Utility.

STEP 2: Press **Search** to search for MiiNePort W1/MiiNePort W1-T modules on the LAN.

STEP 3: When the search is complete, all modules that were found will be listed. If more than one module has been found, you can identify your module by referring to its MAC address.

STEP 4: Please refer to the MiiNePort W1 series User's Manual for additional configuration instructions.

Product Specifications

Form Factor	
Type	Drop-in module
Dimensions	44.4 x 44.4 x 9.7 mm (1.75 x 1.75 x 0.38 in)
Ethernet Interface	
Number of Ports	1
Speed	10/100 Mbps, auto MDI/MDIX
WLAN Interface	
Standard Compliance	IEEE 802.11b/g
Network Modes	Infrastructure mode (b/g), Ad-Hoc mode (b/g)
Spread Spectrum Technology	DSSS, CCK, OFDM
Transmit Power	IEEE 802.11b: 16 dBm (typical) IEEE 802.11g: 14 dBm (typical)
Receive Sensitivity	-71 dBm (Min)
Transmission Rate	IEEE 802.11b: 11 Mbps IEEE 802.11g: 54 Mbps
Transmission Distance	Up to 100 meters (in open areas)
Wireless Security	AES, WEP 64/128-bit, WPA, WPA2, PSK, 802.11i
Serial Interface	
Number of Ports	1
Serial Standards	TTL
Serial Communication Parameters	
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd
Flow Control	RTS/CTS, XON/XOFF
Baudrate	50 bps to 921.6 Kbps
Serial Signals	
TTL	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Software	
Network Protocols	ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, SNMP V1/V2c/V3, HTTP, SMTP, SNTP, SSH, HTTPS
Configuration Options	Web Console, Telnet Console, Windows Utility, Serial command mode (configured through the data port)
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64, Embedded CE 5.0/6.0, XP Embedded
Fixed TTY Drivers	SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x
Linux Real TTY Drivers	Linux kernel 2.4.x, 2.6.x, 3.0.x
Operation Modes	Real COM, TCP Server, TCP Client, UDP, RFC2217
Environmental Limits	
Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature: -40 to 60°C (-40 to 140°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Power Requirements	
Input Voltage	3.3 VDC (±5%)
Power Consumption	360 mA
Standards and Certifications	
Safety	UL 60950-1, EN 60950-1
EMC	CE, FCC, EN 301 489-1/17
EMI	EN 55022 Class A, FCC Part 15 Subpart B Class A
EMS	EN 55024, EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (CS), EN 61000-4-8, EN 61000-4-11
Radio	EN 300 328, EN 301 893, DSPR (Japan)
Shock	IEC-68-2-27
Freefall	IEC-68-2-34, IEC-68-2-32
Vibration	IEC-68-2-6
Green Product	RoHS, CROHS, WEEE
Reliability	
Automatic Reboot Trigger	Built-in WDT (watchdog timer)
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

Reference Material

Detailed user's guides can be found on the Documentation and Software CD that is shipped with your MiiNePort W1 series.