

Software Configuration

Logging into the system

Please access the system facilities via SSH using any text-mode SSH client software.

Accessing the system via SSH

The Secure Shell (SSH) is an encrypted networking protocol, allowing user to configure the device through Ethernet network. Microsoft does not supply SSH tool, you can use alternative program such as *Tera Term Pro*, which is licensed under GPL2.

The device is factory configured with the static IP address 192.168.1.1.

If the device is under a DHCP server, please check the assigned IP address.

The Command Line Interface (CLI)

When logging into the system via terminal console in SSH or RS-232, you will be presented with the login prompt. Use 'manager' and password 'friend' for logging into the system for the first time. Entered password is not visible, and the backspace key is not valid.

```
AT-WR4662n login: manager
Password:
```

After logging into the router you will be presented with the AT™ banner and command prompt, in example:

```

AA TTTTTTTTTTTTTTTTTT ooooo
AAAAA TTTTTTTTTTTTTTTT oooooooo
AAAAAAAAA TTTTTTTT I oooooo
AAAAAAAAAAAA TTTTTT IIIIIIIIII
AAAAAAA AAAAA TTTT IIIIIIIIII
AAAAAAA AAAAA T IIIIIIIIII

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AT-WR4662n>
```

The password entering Privileged Exec Mode is still 'friend'; it can be changed with `enable password [NEW PASSWORD]` command in Config Mode. Please perform the following guide.

```
AT-WR4662n>enable
Password:
AT-WR4662n#configure terminal
Enter configuration commands, one per line. End
with CNTL/Z.
AT-WR4662n(config)#enable password [NEW
PASSWORD]
AT-WR4662n(config)#
```

Input your preferred password in [NEW PASSWORD].

Commands available for each protocol are separated into several modes arranged in a hierarchy. The command prompt shows the identity name of the router and the current menu level, in example:

```
AT-WR4662n>
AT-WR4662n#
AT-WR4662n(config)#
AT-WR4662n(config-if)#
```

The list of available commands at any menu level can be obtained by entering the question mark '?',

```
AT-WR4662n>?
Clear      Reset functions
Debug      debugging functions
           (see also 'undebug')
disable    Turn off privileged mode command
enable     Turn on privileged mode command
exit       End current mode and down to previous
           mode
help       Description of the interactive help
logout     Exit from EXEC
no         Negate a command or set its defaults
quit       Exit current mode and down to previous
           mode
show       Show command
terminal   Set terminal line parameters
AT-WR4662n>
```

For further and more detailed information and for the full command set, please refer to the AT-WR4600 Series manual; it is available online at <http://www.alliedtelesis.com/support/>.

AT-WR4662n | High-Speed Mobility - Wireless Base Router

Acknowledgments

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GPL Code Request

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Safety Notice

Do not open service or change any component.

Only qualified technicians are allowed to service the equipment.

Observe safety precautions to avoid electric shock.

Check voltage before connecting to the power supply.

Connecting to the wrong voltage will damage the equipment.

Contacting Allied Telesis

Main direct link is: <http://www.alliedtelesis.com/support/>.

Where to Find Web-based Guides

The installation and user guides for all Allied Telesis products are available on "Documentation" section. You can view the documents online or download them onto a local workstation or server.

Online, Email and Telephone Support

You can request technical support online by accessing the "Support Center". Our interactive support center is your link to answers you need. Search our knowledge base, check support tickets, learn about RMAs and contact technical support.

Warranty

For product registration and warranty conditions please visit Allied Telesis website:

<http://www.alliedtelesis.com/support/warranty/>

Returning Products

Products for return or repair must first be assigned a return materials authorization (RMA) number. A product sent to Allied Telesis without an RMA number will be returned to the sender at the sender's expense.

To obtain an RMA number, refer to "Replacement Services" section.

Sales or Corporate Information

You can contact Allied Telesis for sales or corporate information through: <http://www.alliedtelesis.com/contact>.

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Safety Information

CE Declaration of Conformity (DoC)

The CE Declaration of Conformity is available at: <http://www.alliedtelesis.com/support/>.

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EMC - EN 61000-6-3:2007
- EMC - EN 61000-6-4:2007
- EMC - EN 301 489-17 V2.1.1
- EMC - EN 50121-4:2006
- EMC - EN 50385:2002
- Radio - EN 300 328 V1.7.1
- Radio - EN 301 893 V1.5.1
- Safety - EN 60950-1:2006+A11:2009+A1:2010

This product may be used in all EU countries and other countries following R&TTE directive 1999/5/EC.

Frequency Band (MHz)	Max Radiated Power (EIRP)	Usage	Commission Decision
2400+2483.5	100 mW	Indoor & Outdoor	2006/771/EC
5150+5350	200 mW	Indoor Only	2007/90/EC
5470+5725	1000 mW	Indoor & Outdoor	2005/513/EC

Table 1: Overview of Regulatory Requirements for Wireless LANs

In France, outdoor use is limited to 10 mW within the band range of 2454+2483.5 MHz.

Additional requirements for any country may evolve. Please, check with the local authorities for the latest status of their national regulations for both 2.4GHz. and 5GHz. wireless LANs.

Please, be compliant to local regulations declaring your country and the real gain value of antenna system in software configuration by means the following commands:

- > world-mode dot I I d
- > antenna gain

Note, the value of antenna gain is related to the whole antenna system; that includes the gain of installed antenna and power absorption effects (loss) caused by coax cables, connectors and any other objects like, in example, N-way splitter/combiner.

The maximum permitted antenna-gain value is 27dBi in the 5500-5700MHz band, 22dBi in the 5150-5350MHz band and 18dBi in the 2.4GHz band.



Local language safety statements

Please, go to the Allied Telesis website <http://www.alliedtelesis.com/> for the translated safety statement in your language.

Hardware Installation

Package Content

Check your package for the following items. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

- 1x AT-WR4662n unit (802.11n, with 2x2 MIMO)
- 2x protective caps for N-type connector
- 1x field installable RJ-45 connector kit
- 1x pole mount kit with screws, U-bolts and nuts
- 1x this Quick Installation Guide

Hardware description

The device has the following connection points:

- 4x antenna connectors, N-Type - female
- 1x Ethernet port, IEEE802.3af PoE

Figure 1 depicts how the rating label on the equipment back identifies the antenna connectors.

The antenna connectors are identified as:

- 0a - interface dot I radio 0, MIMO chain 0
- 0b - interface dot I radio 0, MIMO chain 1
- 1a - interface dot I radio 1, MIMO chain 0
- 1b - interface dot I radio 1, MIMO chain 1



Figure 1: AT-WR4662n antenna connectors

Figure 2 shows the bottom of the device offering N-type connectors, the Ethernet PoE connector and the protective vent.



Figure 2: The bottom of AT-WR4662n

For connecting the equipment to the wired network, a pre-assembled CAT 5 cable with outdoor waterproof RJ45 connector installed shall be used or the provided RJ45 assembly can be field installed on a CAT 5 outdoor rated cable as shown in Figure 3.

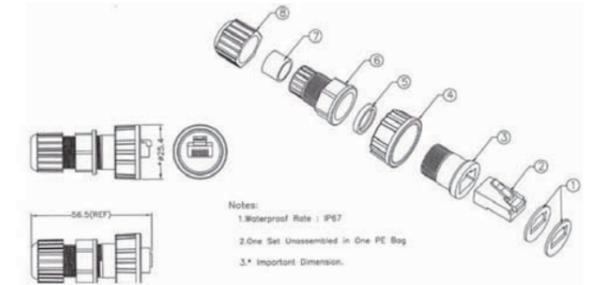


Figure 3: Weather proof RJ45 connector assembly

Mechanical Installation

Installing the device, first attach the provided pole mount bracket or the optional AT-WR4501 wall mount bracket using the 4 bolts provided with the equipment.



Figure 4: HSMIP Base Router mounted on pole

For pole installation mount the two provided U bolts as shown in Figure 4 and fasten the four provided nuts until the equipment is firmly held. Please do not exceed in order to avoid mechanical deformation of bolts or mounting kit. For wall mounting you will need to order the AT-WR4501 Wall Mount kit.

Grounding the unit

On your pole always use proper wire grounding techniques in accordance with your local electric codes. External antennas must be properly grounded too.

Powering the unit

The device requires IEEE 802.3af PoE power feeding; attach power sourcing equipment (PSE) to the RJ45 PoE connector.

USE ONLY PSE which is compliant to IEEE 802.3af, otherwise you can seriously damage the device.