

Overview

This document provides instructions for FUYL Tower users wishing to upgrade to WiFi. This upgrade is **only** required for FUYL Towers with the serial numbers listed below.



Serial numbers:

052 1001M-1050M, 052 1001MU, 052 1037MU-1039MU, 052 1041MU-1047MU, 052 1051MU, 052 1053MU-1063MU, 052 1065MU, 052 1103MU, 052 1109MU, 052 1110MU, 052 1114MU, 052 1002MU-1036MU, 052 1066MU-1100MU, 052 1163MU, 052 1164MU, 052 1166MU, 052 1152MU, 052 1159MU, 052 1160MU, 052 1154MU, 052 1156MU, 052 1165MU, 052 1157MU, 052 1161MU, 052 1162MU, 052 1151MU, 052 1153MU, 052 1158MU, 052 1147MU, 052 1150MU, 052 1155MU, 052 1146MU, 052 1148MU, 052 1149MU, 052 1145MU, 052 1122MU, 052 1132MU, 052 1121MU, 052 1123MU, 052 1125MU, 052 1128MU, 052 1139MU, 052 1144MU, 052 1101MU, 052 1102MU, 052 1104MU-1108MU, 052 1120MU, 052 1113MU, 052 1126MU, 052 1138MU, 052 1040MU, 052 1048MU-1050MU, 052 1052MU, 052 1064MU, 052 1135MU

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DO I NEED THIS UPGRADE?

This upgrade is only intended for FUYL Towers with the serial number mentioned on the first page. FUYL Towers that do not have these serial numbers have an upgraded FUYL Tower Controller that has a WiFi module built-in.

WHAT DO I NEED?

To perform the upgrade, you will need the following:

- A USB WiFi modem which complies with your local telecommunications regulations (see SELECTING A WIFI ADAPTER below)
- A FUYL Tower with ROM version V1.07 or later (see CONFIRM HARDWARE VERSION below)
- Computer with browser
- Ethernet cable connects computer to the LAN or (for a direct connection) directly to the FUYL Tower.
- Passwords for:
 - o LCD Admin menu access
 - Management Portal access
 - o WiFi authentication
- Two keys for control panel access and Admin menu activation



SELECTING A WIFI ADAPTER

PC Locs have tested the FUYL Tower with a number of USB WiFi adapters based upon the RealTek RTL8188CUS chipset, and have had no issues with these. We would therefore recommend installing adapters based upon this component.

There are numerous WiFi adapters available which appear to conform to the required 802.11n specification – however, some will not be suitable due to issues of software driver compatibility and power supply requirements. Reports *suggest* that the following models are compatible, but this has not been confirmed with in-house testing – if a Customer should decide to install these (or any other) devices, they are strongly advised to test them first!

•	Adafruit miniature WiFi module	Realtek RTL8192CU
•	AirLink101 AWL5099 Wireless N150 Ultra Mini USB Adapter	Realtek RTL8188CUS
•	Asus USB-N13 rev B1	Realtek RTL8192CU
•	Belkin F7D2102 N300 Micro Wireless USB adapter	Realtek RTL8192CU
•	Belkin F5D8053 ver.6001 Wireless N Adapter	Realtek RTL8188SU

The FUYL Tower provides a USB 2.0 interface, so there is little advantage to be gained by installing USB 3.0 adapters.



INSTALL HARDWARE

- 1. Power down the FUYL Tower
- 2. Open the middle access panel using the larger of the two keys provided
- 3. Plug in the USB WiFi modem to either of the uppermost USB ports (there are four in total)



- 4. Connect your laptop or computer to the FUYL Tower over Ethernet cable. If your FUYL Tower is part of a Local Area Network, it may already be plugged into a wall socket. If not, open the middle control panel with the large key provided, and connect an Ethernet cable from the controller unit's Ethernet socket to your computer.
- 5. Power up the FUYL Tower

CONFIGURE WIFI

Connecting to the FUYLTower Management Portal (FTMP) is done through a web browser, such as Internet Explorer, Firefox, Chrome or Safari.

DETERMINE FUYLTOWER NETWORK ADDRESS

Obtaining the network address (IP address) of the FUYLTower is done through the **admin keypad override mode**, accessed from the control panel of the FUYLTower. For detailed instructions, refer to the FUYLTower User Manual.

- 1. Use the admin control access key (the smaller of the keys) to access the Admin menu.
- 2. When asked, enter the 8 digit authorisation code (default: 23350743)
- 3. When the menu options appear, press keypad numeral 6. The IP address should be displayed.



Note: If no IP address is visible on the screen, the DHCP server may not have issued an IP address - wait for few minutes and try again.



ACCESS THE PORTAL

1. Open the web browser and type the address into the URL bar at the top of the screen. Use the IP address that was displayed on the FUYLTower LCD, and add :9898 at the end eg: <u>http://192.68.15.35:9898/</u>

Tugin	× +	
+ http://192.168.15.35:9898/	1	

- 2. The login page should be displayed
- 3. log in using your Administrator password. The default credentials are as follows:

Username: *admin* Password: *uberbasket*

CONFIRM FIRMWARE VERSION

On the Management Portal home page, confirm that the ROM version displayed is V1.07. If an earlier version is installed, you will need to install a more recent version by requesting a new SD card.

This Home page below indicates ROM V1.08 is installed:

0 172.16.232	.160:9898/index.php	Q
		U
FUYL	Tower Management	
Home		
Lockers		
Total lockers:	15	
Free lockers:	15	
Network		
IP address.	172.16.232.160	
FUYL Tower nar	ne:	
Versions	6	
Firmware:	1.22	
Database:	1,16	
Portal	1.16	
Locks:	V3.2.0	



CONFIGURE WIFI

If WiFi is to be used in place of the wired LAN connection, then a WiFi adaptor will need to be connected to one of the USB ports. These ports are located within the control panel, on the top of the controller behind the LCD display. The wired LAN should still remain connected for initial setup.

1. Select the WiFi menu page

	Fuyltower Management	
	Wifi	
Home	Will is NOT connected - reload the page to scan for networks.	
Event Log	Network	
Diagnostics	Wifi Passphrase	
Wifi	Use WPA-RADIUS/EAP	
	Connect	

- 2. Select the network from the available list
- 3. Enter the WiFi Passphrase
- 4. Click the CONNECT button.
- 5. If the network and passphrase are valid then the page will indicate that WiFi is connected.



- 6. Logout
- 7. Disconnect the wired LAN cable (otherwise the FUYL Tower will continue to use the Ethernet port)
- 8. Power-cycle the tower to allow the WiFi to activate

NOTE: Once the FUYL Tower has restarted, you will be able to connect to the tower in the same manner as before using a WiFi enabled device – however, please note that DHCP will have allocated a new internet address.

- 9. Test the interface:
 - a. Obtain the new WiFi internet address by repeating steps in ACCESS MANAGEMENT PORTAL (above)
 - b. From a WiFi enabled computer, access the Management Portal using the new WiFi IP address.



TROUBLESHOOTING

When I try to display the IP address of the FUYLTower, it remains	The FUYLTower may not be connected to a network.
blank.	
	The DHCP server may take some time to issue an address to the
	tower. Try again in a few minutes
	The FUYL Tower is powered off.
	The WiFi adapter may be demograd, or not installed correctly
	One wirl adapter may be damaged, or not installed correctly.
	Open the control panel door of the FUYLTower and check for
	network activity lights on the USB adapter.
Capit connect to the EUVL Tower from a WiEi enabled device	The Ethernet cable may still be connected to the LAN. In this
carri connect to the FOTE Tower from a wift enabled device	The Ethernet cable may still be connected to the LAN. In this
	case it will have priority over the wifi port. Ensure the Ethernet
	cable is unplugged.
It worked before, but now I can't access the Management Portal	Your DHCP server will semetimes be configured to refresh IP
The worked before, but now real tracess the management rontal	addrossos, and may have allocated a new address to your EUV
	Tower Using the Admin many (antion (), confirm that your
	Tower. Using the Admin menu (option 6), confirm that your
	tower has the correct IP address, then try to connect using this.
	Your WiFi access point may require a reset.
	Interference from strong radio sources close to the FUYL Tower
	may cause disruptive interference.
	Power cycle the FUYL Tower