SPARK MF65+ USER GUIDE

Spark

CHECK YOUR SYSTEM REQUIREMENTS

Your Wi-Fi router will connect to any device that supports Wi-Fi, 802.11 b/g/n
A web browser is required to log in to your Wi-Fi router if you wish to make any configuration changes.
USB driverless connection is also supported for Windows, MAC and LINUX operating systems:

- Windows 8 (not including RT) / 7 / XP / Vista
- MAC OS X 10.5 to 10.10
- Linux

Using the USB connection requires administrator rights to install and run the software.
We suggest you switch off your anti-virus software before connecting the router - In some cases protection software can prevent automatic installation.
It is possible to start the installation process manually by clicking the Autorun icon when it appears.

GET TO KNOW YOUR WI-FI HOTSPOT
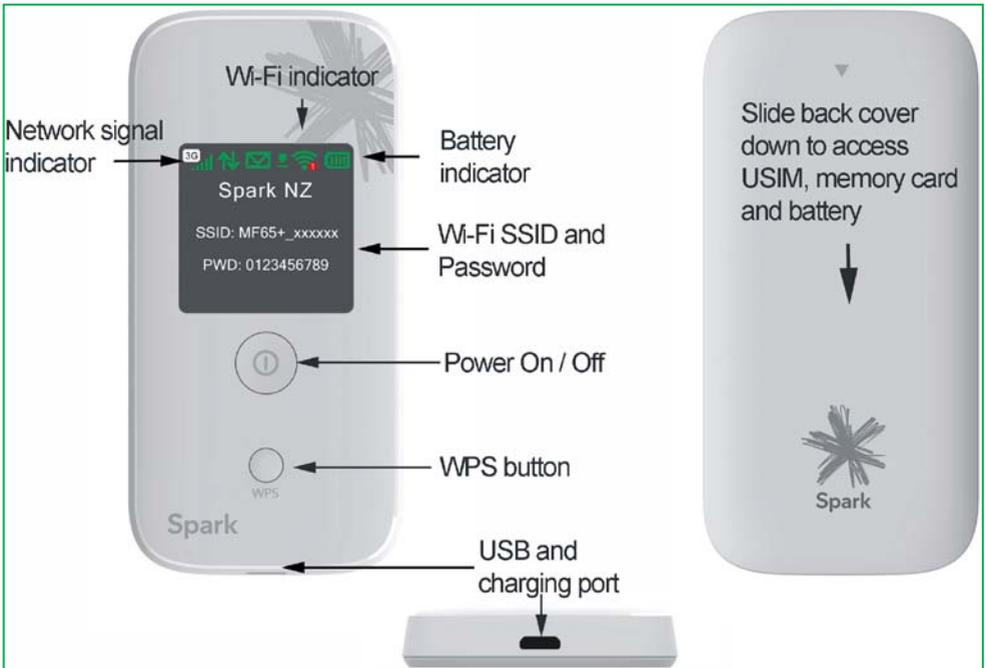
INSERT YOUR SIM CARD

1. Slide the back cover down to access the SIM and memory card slots.
2. Insert your SIM card carefully as shown:
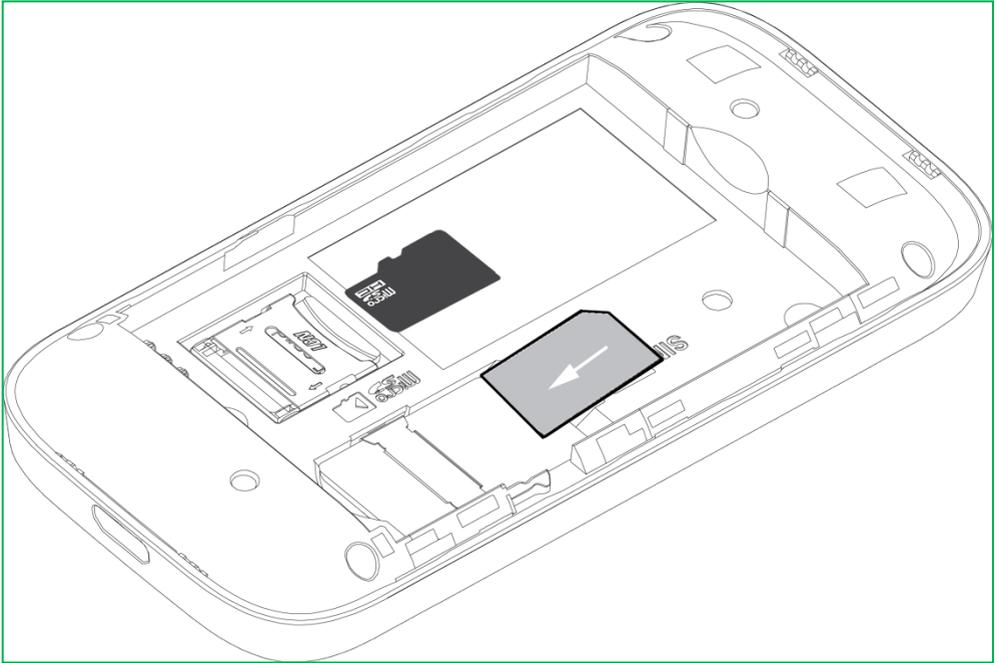
3. If you want to add a memory card you can do it now. Your USB device supports up to 32GB microSD(HC)™ memory.
4. Insert the battery with the gold contacts lined up with the gold springs and slide the cover back on.
5. You are now ready to power up your device and you'll be on-line in no time.

Notes
- Adding a memory card is optional
- microSD™ up to 2GB are FAT 16 format.
- microSDHC™ up to 32GB are FAT 32 format.

Handy hint
Remember to keep your plastic SIM card holder. It has a record of your PIN number which you should keep handy.

POWER UP YOUR WI-FI HOTSPOT

Press and hold the Power key for 3-4 seconds until the lights flash.
The Wi-Fi hotspot will start up in a few seconds. Check the condition of your Wi-Fi hotspot as shown by the LED indicators.

LED DISPLAY OVERVIEW
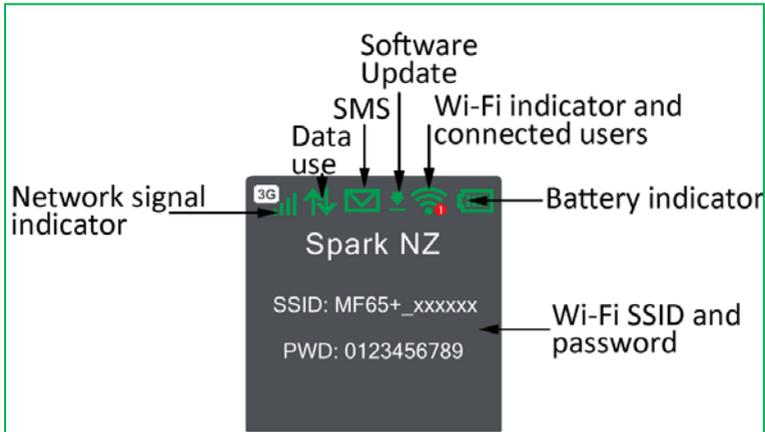
CONNECT DEVICES BY WI-FI

Your Wi-Fi hotspot can connect up to ten devices via Wi-Fi providing internet access for all your devices on the go.

- On the devices you wish to connect make sure Wi-Fi is switched on, then search for Wi-Fi devices.
- The Wi-Fi router will show up as MF65+_xxxxxx, click on this device to connect.
- Consult the device display or make a note of the password under the battery cover. Enter the unique password which is case sensitive. Any letters entered must be in upper case (capitals).
- (Note showing the password on the display is optional, and can be switched off using the web interface > Settings > Device Settings)

Connection example for Windows 7 computer:
1. On your task bar, next to the clock, click on the Network Interface icon
2. Click on the Wireless device MF65+_xxxxxx
3. Enter the password exactly as shown on the display (optional) and printed in the battery compartment. (Passwords are case sensitive)
4. With Connect Automatically enabled your computer will remember the password and connect to your Wi-Fi device when it is on and in range.

Handy hint
It is also possible to connect via USB connection. See later for details.

QUICK REFERENCES

Browser home page	http://192.168.0.1
Administrator login	password
Default SSID	MF65+_xxxxxx.
	Shown on the display (optional) and printed in the
	battery compartment
Default Security Key	10 characters which are case sensitive.
	Shown on the display (optional) and printed in the
	battery compartment
Restore defaults	From the powered up state:
	Press & hold the power key and the WPS key
	simultaneously, hold for about 10 seconds.
	All passwords and settings will be restored to defaults
	and the router will reboot.

WEB INTERFACE LOGIN SCREEN

DEVICE HOMEPAGE

Open a browser and go to 192.168.0.1 to access the device homepage.
The default administrator login password is 'password'

HOMEPAGE ICONS
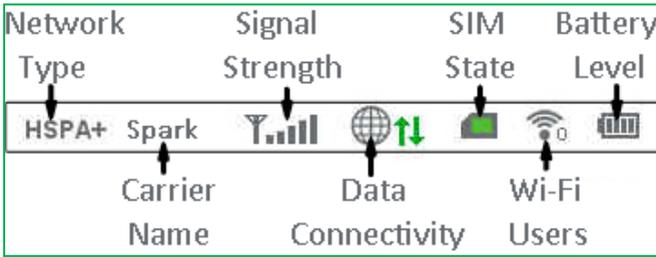
NOTE: A Red SIM card icon can mean any of the following states:

- SIM card is missing or incorrectly inserted. Remove the battery and check the SIM card is inserted correctly.
- SIM card is PIN or PUK locked (Enter the PIN number, or contact your carrier for the PUK code)
- SIM card is faulty

THE INFORMATION TAB

The Information tab shows the summary device status, how many devices are connected by Wi-Fi and whether you are connected to the mobile broadband network.

- The device will automatically connect to the network.
- To change this behaviour press Disconnect on the Home tab, then go to Settings > Network Settings > Dial-up Settings, and select Manual.
- The number of devices connected to your Wi-Fi hotspot is displayed and you can select to Block unwanted devices if required.

SD CARD
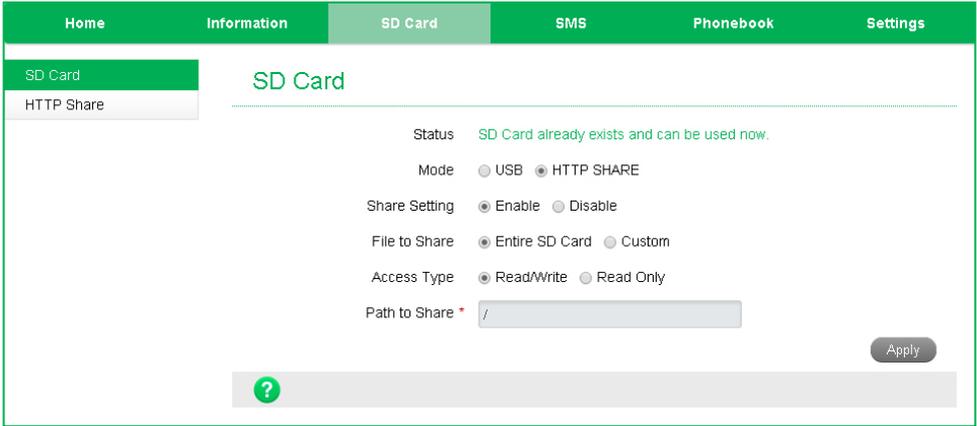
- Enable Web Share to share the contents of your SD card with other users connected to your device.
- Read only or Read / Write access can be configured.
- Custom sharing can be enabled to restrict access to certain paths.
- Press the Web Share button to view all the files.

SMS

- Click in the top box to add Contacts
- You can enter Contact names in the Contacts field and the device will search and list applicable matches
- Click in the bottom box to type your message
- Press the Send button when done
- Threaded messages (messages sent and received to the same Contact) are displayed in the main panel.
- View SMS > SMS Settings to enable delivery reports and to check the SMS centre number (read from your SIM card)

PHONEBOOK

Home	Information	SD Card	SMS	Phonebook	Settings

Phonebook (219/600)

New | Send Message | Delete | Delete All | 🔍 Search ✕

	Name ⬍	Save Location ⬍	Mobile Number ⬍	Group ⬍
☐	abc national	▣		-
☐	Adam	▣		-
☐	Adam & Judy Bo	▣		-
☐	adele	▣		-
☐	Alan Sutherlan	▣		-
☐	Alan Sutherlan	▣		-
☐	Alison	▣		-
☐	Alison	▣		-
☐	Alison home	▣		-
☐	Alison home	▣		-

All | Common | Family | Friend | Colleague

<< | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | … | 22 | >> | Page: | | GO

- Click Phonebook to view your SIM card contacts.
- Contacts are automatically read into the device but you can also copy and save on your device.
- Select the Contact to view more details, click Edit to make any changes, then select the Save location as Device.
- Contacts stored on the device can include additional fields.
- Select New to create a new contact and choose the save location as Device or SIM card.

SETTINGS > QUICK SETTINGS:
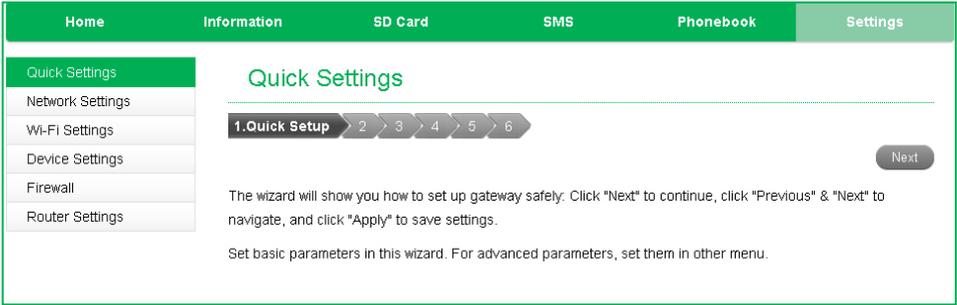
Step through the Quick Settings wizard to quickly review your current default settings.

NETWORK SETTINGS > DIAL UP SETTINGS (AUTOMATIC CONNECTION):
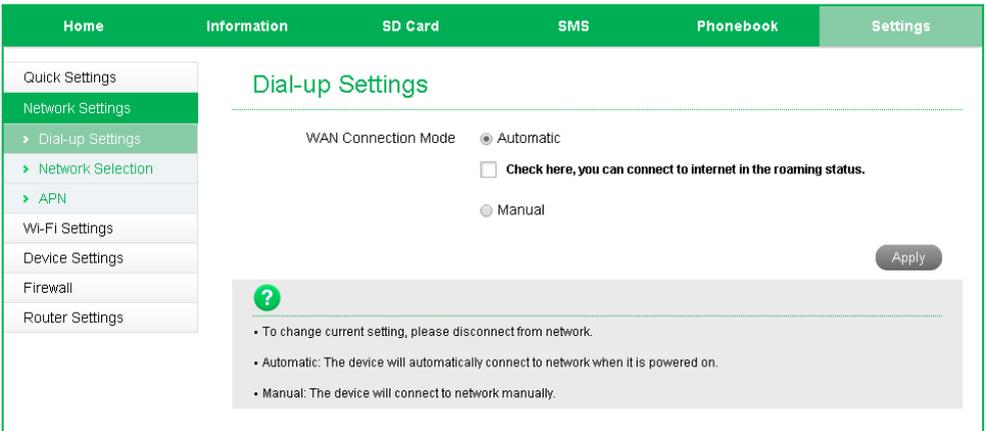
- The default connection setting will automatically connect to the network. The setting is greyed out if you are connected.
- Press the Disconnect button on the Home tab to change this setting and to enable International Roaming if required.
- If you make any changes, press Apply to save the change
- Press the Help icon to get in context tips.

SETTINGS > NETWORK SELECTION:
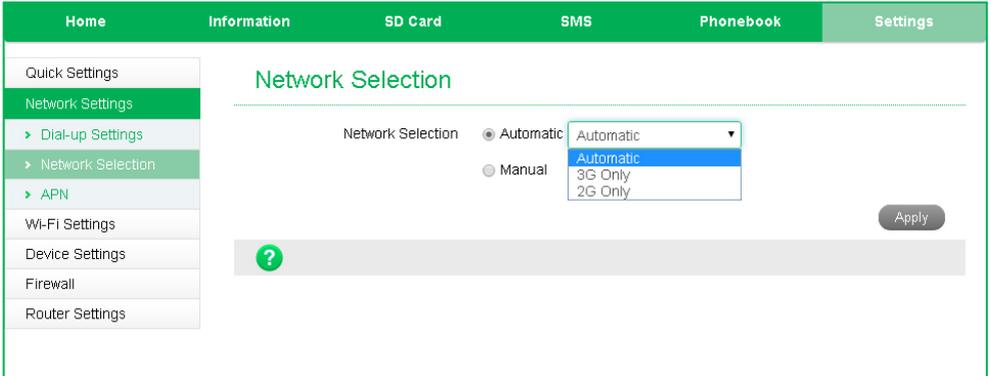
- Network Selection is set to Automatic. You can change to 3G or 2G only.
- Press the Disconnect button on the Home tab to change this setting if required.
- If you make any changes, press Apply to save the change
- Press the Help icon 🛈 to get in context tips.
- Normally there is no need to change these settings unless you change service provider.

SETTINGS > APN:
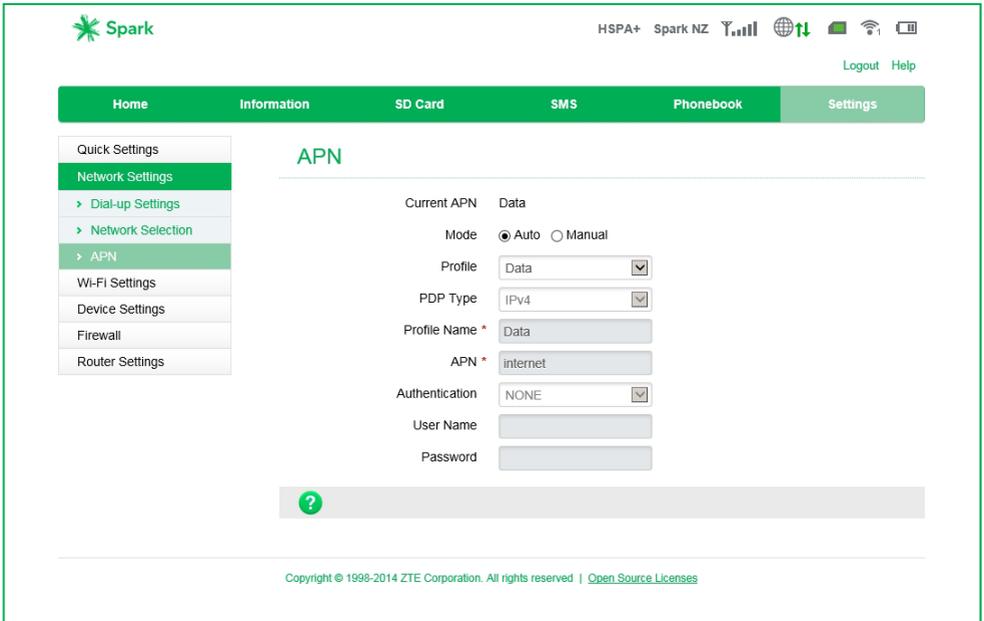
- Press the Disconnect button on the device home page to change this setting if

required.

- Press Add New to create a new APN
- Add the Profile Name, eg Data
- Enter the correct APN details eg internet
- Press Save to save your new APN
- Press the Profile drop down box
- Select the new APN profile
- Click on 'Set as default' to set the new APN as your preferred setting
- Press the Help icon to get in context tips.
- Normally there is no need to change these settings unless you change service provider.
- The device is configured for Spark. If you use a SIM card from another provider you may not be able to connect to their network.
- Consult your new carrier to obtain alternate APN details for your device.

SETTINGS > DEVICE SETTINGS > ACCOUNT MANAGEMENT
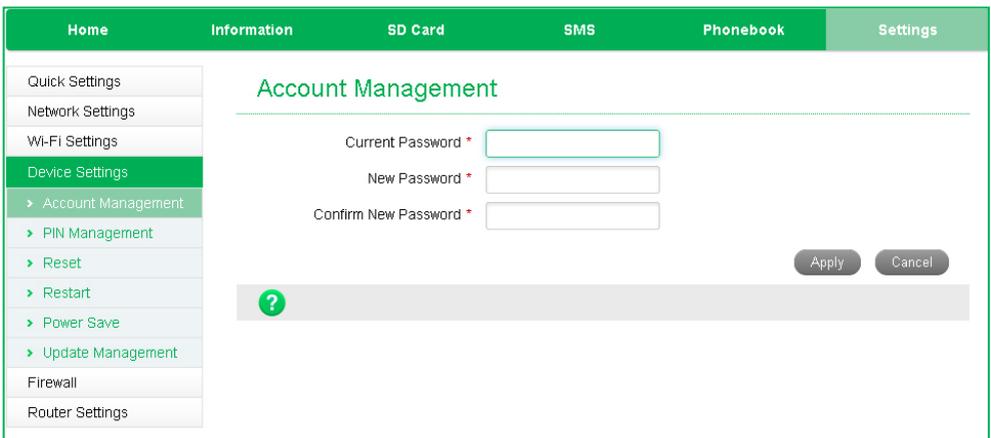
- Use the Account Management settings to change the administrator password if required.
- The default password is password. If you have changed and forgotten the password then you need to restore the device to factory defaults: From the powered up state press and hold the power key and the WPS key together for 8 seconds until the power LED goes off. The device will reset.

SETTINGS > DEVICE SETTINGS > SIM PIN MANAGEMENT

- Press the Disconnect button on the device home page to change the PIN settings if required.
- Enter your current PIN code to change or disable the PIN
- If you make any changes, press Apply to save the change
- If you enter the incorrect PIN code three times in succession you will lock your SIM card.
- Contact your service provider to obtain your PUK code

SETTINGS > DEVICE SETTINGS > RESET

Press **Reset** to restore your original factory settings.

SETTINGS > DEVICE SETTINGS > RESTART

Press **Restart** to power cycle your device.

SETTINGS > DEVICE SETTINGS > POWER SAVE
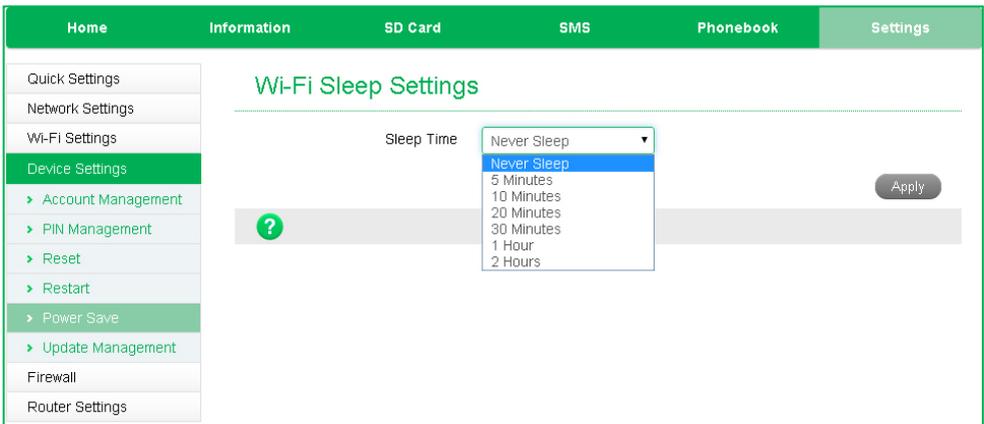
- If there is no Wi-Fi traffic detected then the device will switch off Wi-Fi as determined by the Wi-Fi sleep setting.
- Select Never Sleep to keep the device 'Always on'

SETTINGS > DEVICE SETTINGS > SOFTWARE UPDATES

Home	Information	SD Card	SMS	Phonebook	Settings

Quick Settings
Network Settings
Wi-Fi Settings
Device Settings
› Account Management
› PIN Management
› Reset
› Restart
› Power Save
› Update Management
Firewall
Router Settings

Cycle Settings

Auto-check New Version ⦿ Enable ○ Disable

Auto-check Cycle [15 days ▼]

☐ **Check this option, the device will update when roaming and you will incur roaming charges.**

[Apply]

Check New Version

Click Check button for checking new version immediately.

[Check]

- Press Check Now to manually check for updates for your device.

- If there is a new software version available the Download icon ⬇ will show on screen. Log onto your device and follow the prompts to download and upgrade your device

SETTINGS > FIREWALL > PORT FILTERING

- Select Enable to turn on the Port Filtering settings
- You can apply filters based on MAC Address, Source IP Address, Destination IP Address and select the action to drop or accept the packets.
- Firewall settings are for advanced users and network administrators.
- Press the Help icon to get in context tips.

SETTINGS > FIREWALL > PORT MAPPING

- Select Enable to turn on the port mapping settings.
- Port mapping can be used to allow a specific external server or computer access to your machines located on your LAN. Typical applications will be for multi party gaming, requiring specific control and communications channels between the remote server and the local machine.
- Port forwarding is designated from the WAN side to the LAN side and also allows for Port Translation so a port on the WAN side can be mapped to a different port number on the LAN side.
- Firewall settings are for advanced users and network administrators.
- Press the Help icon ❓ to get in context tips.

SETTINGS > FIREWALL > UPNP
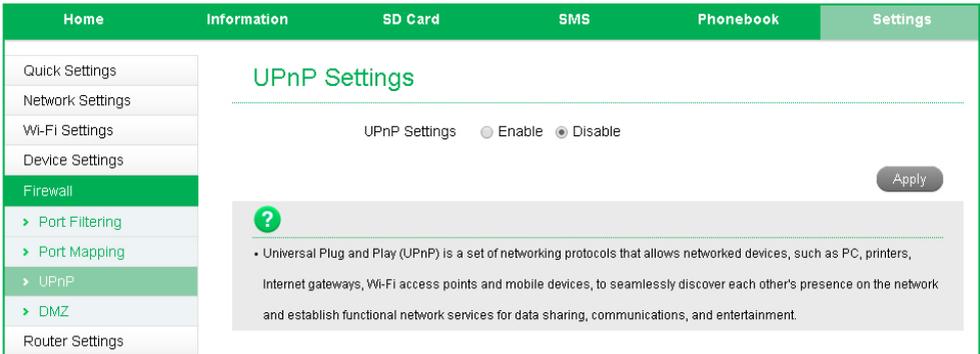
- Universal Plug and Play is a set of networking protocols that permits networked devices, such as personal computers, printers, Internet gateways, Wi-Fi access points and mobile devices to seamlessly discover each other's presence on the network and establish functional network services for data sharing, communications, and entertainment.
- Enabling UPnP could leave your system vulnerable to external control so is best left in the Disabled state.
- Firewall settings are for advanced users and network administrators.

SETTINGS > FIREWALL > DMZ

- Enable the DMZ Host to open up all ports for this particular IP destination.
- The DMZ device is not accessible from the Wi-Fi LAN side but has full access to the internet

SETTINGS > ROUTER SETTINGS

Router Settings

IP Address *	192.168.0.1
Subnet Mask *	255.255.255.0
DHCP Server	● Enable ○ Disable
DHCP IP Pool *	192.168.0.100 - 192.168.0.200
DHCP Lease Time *	24 hour(s)

Apply   Cancel

- uFi is set as a Dynamic Host Configuration Protocol (DHCP) server by default, providing IP address from DHCP IP Pool for all PC connections to LAN.
- IP Address: IP address for LAN interface.
- Subnet Mask: Subnet mask for IP address.
- DHCP Server: Enable or Disable DHCP Server.
- DHCP IP Pool: Allocate start and end IP address for IP pool.
- DHCP Lease Time: Define validity of the leased IP address; and new IP address will be relocated .

Navigation menu:
- Quick Settings
- Network Settings
- Wi-Fi Settings
- Device Settings
- Firewall
- Router Settings

Top navigation: Home | Information | SD Card | SMS | Phonebook | Settings

USB INSTALLATION FOR TETHERED CONNECTION

You can also connect your device via the USB lead provided. The installation software is pre-loaded onto your USB device. Simply insert the device into your computer and follow the instructions on-screen.

Example shown for Windows operating system.

1. Click on 'Open folder…' application:

2. Double click the Autorun
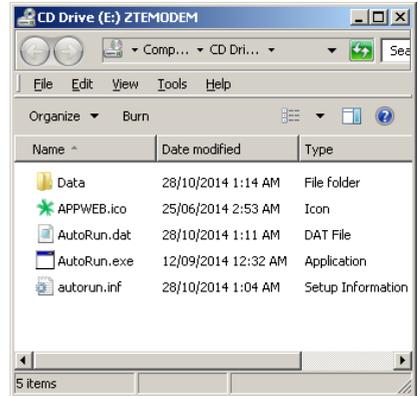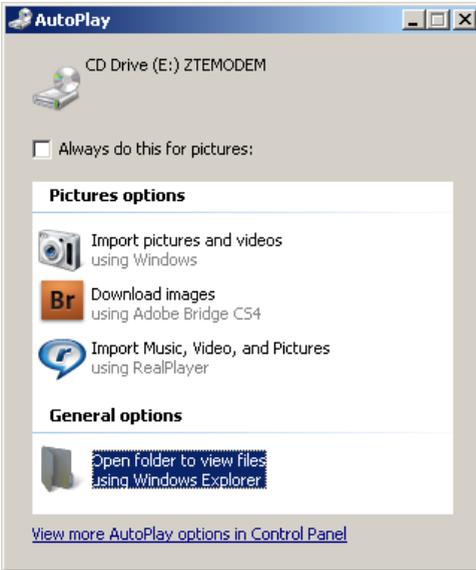
3. The installation will create a short-cut on your desktop and open your browser at the device homepage.

USB INSTALLATION NOTES

- The installation will create a new shortcut on your desktop and a new program listing under Start-Programs
- If you have problems with the installation please contact your supplier or see our website, zte.co.nz for more assistance and FAQ's or call our hotline on 1300 789 475 available between 9am and 5pm AEST.
- If you can't connect to the internet check your SIM card is inserted correctly, contact your service provider and check your account is active.
- To uninstall the application:
  Windows users: Programs > Spark Pre-Paid 3G Wi-Fi > Uninstall

MAC Users:
- Double click the Spark Modem CDROM on the desktop to install the device.
- To uninstall, go to Applications and run Uninstall Spark Pre-Paid 3G Wi-Fi

HELP
- Click Help button to access this full user guide
- Click the Help icon 🌀 to see in context help
- Go to zte.co.nz for FAQ's, product and warranty support

BATTERY CHARGING
The battery can be charged by connecting the device to the supplied AC charger or via a USB connection.

The recharge time is typically 3-4 hours.

The battery cannot be charged when the internal device temperature exceeds 45ºC. This is a safety requirement for Lithium Ion batteries.

Under conditions of extended use, low coverage, high temperature or maximum data throughput, the battery may not charge, even though the router is connected to the AC charger.

For these situations it is recommended that, in addition to the charger being connected, the battery is fully charged before extended data transfers commence.

microSD™ MEMORY CARD
If you use a microSD™ memory card in your device your computer will display a removable disk drive. You can use the device as an external drive to store and transfer files.

microSD™ cards supported to 2GB are FAT 16 format.
microSDHC™ cards supported to 32GB are FAT 32 format.

If using a memory card use the Safe Removal of Hardware process or Eject the device. Consult your operating system guidelines.

TROUBLESHOOTING

If you have any problems with your connection or device please consult the manual and check this section. If the problem still exists contact your service provider or check our website for more details at zte.co.nz

Problem	Possible Causes	Suggested Solution
I cannot connect via Wi-Fi	Security settings, password has been changed.	Check the security settings SSID and Password shown on your Security Card and under the battery cover. If the password has been changed reset the router to factory defaults by holding the WPS and Power buttons
The user interface doesn't start after the device is plugged in.	PC configuration is not correct. (No autorun)	Start the program manually by going Start > Program Files or use the shortcut on the desktop.
The device has no signal.	You have no network coverage.	Try moving location until you get good reception. Try the USB extender cable to move the device to a higher position or different orientation.
SIM Card is locked	SIM card requires a PIN or PUK number.	Contact your service provider to obtain the PIN or PUK key.
Data connection failed.	You have no network coverage.	Try moving location until you get good reception.
The device cannot connect to the internet when overseas	You don't have international roaming enabled on your plan.	Consult your service provider before you go overseas to enable roaming.
The microSD™ card cannot be read or is not found.	Re-insert the microSD™ card. The maximum capacity is 32GB SDHC card	Try another microSD™ card and make sure the capacity and format is correct.
The battery goes flat even though I am connected to the charger	The internal device temperature exceeds 45C so battery charging is shut down for safety reasons.	Switch off the device and allow it to cool down. Operate the device in a cooler environment.

PRECAUTIONS AND SAFETY INFORMATION

- Some electronic devices are susceptible to electromagnetic interference. The Wi-Fi hotspot is a transmitting device and may cause interference to sensitive electronic equipment such as audio systems, vehicle systems and medical equipment. Please consult the manufacturer of the other device before using the device.
- Operating of laptop or desktop PCs with the device may interfere with medical devices like hearing aids and pacemakers. Please keep the device more than 20 centimetres away from such medical devices. Turn the device off if necessary. Consult a physician or the manufacturer of the medical device before using near such devices.
- Be aware of regulations when using the device at places such as oil refineries or chemical factories, where there are explosive gases or explosive products being processed. Turn off your device as instructed.
- Don't touch the antenna area unnecessarily whilst connected. This can affect your device performance and reduce the signal quality.
- Store the device out of the reach of children. The device may cause injury or get damaged.
- The device contains sensitive electronic circuitry. Do not expose the device to any liquids, high temperatures or shock.
- Only use original accessories or accessories that are authorised by the manufacturer. Using unauthorised accessories may affect your device's performance or damage your device.
- Avoid using the device in areas that emit electromagnetic waves or in enclosed metallic structures eg lifts.
- The device is not waterproof. Please keep it dry and store it in a cool, dry place.
- Don't use the device immediately after a sudden temperature change eg from an air conditioned environment to high temperature and humidity outside. In such cases there could be condensing moisture inside the device which can cause internal damage. Unplug the device and leave it for 30 minutes before use.
- Always handle the device with care. Be careful not to drop or bend the device.
- There are no user serviceable parts inside the device. Unauthorised dismantling or repair will void the warranty.

RF SAFETY INFORMATION

The wireless device has an internal antenna. For optimum performance with minimum power consumption do not shield the device or cover with any object. Covering the antenna affects signal quality and may cause the device to operate at a higher power level than needed.

RADIO FREQUENCY ENERGY

The wireless device is a low-power radio transmitter and receiver.
When switched on it intermittently transmits radio frequency (RF) energy (radio waves).
The transmit power level is optimized for best performance and automatically reduces when there is good quality reception.
Maximum power is only used at the edge of network coverage so under most circumstances the power output is very low.
Under poor network conditions the device transmits at a higher power level and may get hot.

SPECIFIC ABSORPTION RATE (SAR)

The wireless device is designed to be used in close proximity to the body. We declare that the product detailed in this manual, and in combination with our accessories, conforms with the essential requirements of The Radio Communications Standard (Electromagnetic Radiation Human Exposure) 2003 and the Australian Communications and Media Authority Section 376 of the Telecommunications Act 1997 when used at a distance of not less than 10mm from the body. The worst case SAR result is published on http://zte.co.nz

Z1196

TECHNICAL SPECIFICATIONS

Network compatibility	UMTS 850, 2100 MHz
	GSM 900, 1800, 1900 MHz
Dimensions	102 x 50 x 14.9mm. Approx 78g
Data Rates*	HSPA+ Mode up to 21.6Mb/s Download
	HSPA+ Mode up to 5.76Mb/s Upload
Voltage	5V
Current	Resting: 100mA rms. Nominal 500mA rms
	Max: 700mA rms
Operating systems	Windows 8 (not RT), 7, XP SP3, Vista
	MAC OS X 10.5 to 10.10
Memory card	Up to 32GB microSDHC™
Operating Temperature	-5ºC to +45ºC
Battery capacity	1500mAh
Charge time	3 hours with charger, 4 hours via USB
Standby time**	Up to 300 hours
Operation time**	Up to 6 hours use

* Download/upload speeds will vary due to distance from the cell, local conditions, user numbers, file source, hardware, software and other factors.
** Operation and Standby times depend on a number of conditions and are measured in ideal conditions.