

B-Link Secure Cellular IP Camera Solution

NetComm 4G Wireless

User's Guide





This quick start guide is designed to get you up and running quickly with your new *B-Link Secure Cellular IP Camera Solution NetComm 4G wireless* router. More advanced set up instructions are provided in the user guide which can be opened by clicking on the Brickhouse.Help site, or can be downloaded from the B-Link Secure Cellular IP Camera Solution product page.

In the Box:

In the box you will find B-Link Secure Cellular IP Camera Solution NetComm 4G wireless router, 2 x Cellular antennas, 2 x WiFi antennas, 1 x 1.5m Black Ethernet cable, 1 x DIN rail mounting bracket, 1 x Quick start guide, 1 x Power supply cable with fitted Molex connector, 1 x WiFi security card, 1 x Power Supply and this user's guide.

Device Overview





























Item	Description
1. Sim Card Slot	Where you pre-programmed SIM is inserted
2. Main Cellular	SMA female connector for Cellular antennas
3. MicroSD card slot	Insert a MicroSD card here to provide additional storage (Optional).
4. GPS antenna connector	SMA female connector for GPS antenna
5. Cellular AUX	SMA female connector for Cellular antennas.
6. WiFi antenna connectors	Reverse polarity SMA female connectors for WiFi antennas.

1. Micro USB 2.0 OTG port	Provides connectivity for optional external storage or a USB Ethernet dongle. Supplies up to 0.5A to connected device
2. Reset button	Press and hold for less than 5 seconds to reboot to normal mode. The LEDs are green and extinguish in sequence to indicate that the router will reboot normally if the button is released during this period. Press and hold for 5 to 15 seconds to reboot to recovery mode. The LEDs are amber and extinguish in sequence to indicate that the router will reboot to recovery mode if the button is released during this period. Press and hold for 15 to 20 seconds to reset the router to factory default settings. The LEDs are red and extinguish in sequence to indicate that the router will reset to factory default settings if the button is released during this period.
3. Molex Mini-Fit™ receptacle	<p>Connect the provided power supply here.</p> <p>The Molex receptacle provides:</p> <ul style="list-style-type: none"> • Ground (-) • Power (+) • I/O terminal • (I) ignition input detection terminal.



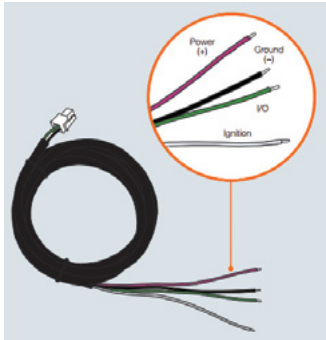
4. LAN port	LAN port for wired Ethernet clients
5. LAN/WAN port	LAN or WAN port for wired Ethernet clients or to bridge another network connection.

Overview of LED indicators

LED icon	NAME	COLOR	STATE	DESCRIPTION
	Power		Off	Power off
			Double flash	Powering up
			On	Power on
			On	Power on in recovery mode
			Slow flashing	Hardware error, such as SIM not inserted.
	WiFi		Off	Radio Off
			On	WiFi Access Point is enabled
			Blinking ¹	Traffic via WiFi
			On	WiFi Client mode is enabled, WiFi Access Point mode is disabled
			Blinking ²	Traffic via WiFi in client mode
	Network		Off	Radio Off
			On	Connected via WWAN
			Blinking ¹	Traffic via WWAN
			Slow flashing	Connecting PDP
			On	Registered on Network
			Slow flashing	Registering network
			Slow flashing	SIM PIN locked
			Fast flashing	SIM PUK locked
			On	Can't connect
	Signal strength		On	LTE signal
			On	WCDMA signal
			On	GSM signal

Power Supply Cable

The included power supply cable has colour-coded breakout wires which can be terminated to provide power, ignition detection and input/output functionality. The picture below outlines the polarity and functions of the wires.



Installing your Device

Step 1: Attach the antennas. The B-Link Secure IP Camera Solution router is shipped with caps on the Cellular, WiFi and GPS antenna sockets. To attach the supplied antennas, first remove the socket caps from the antenna sockets then screw the antennas onto the sockets by turning them in a clockwise direction. Please refer to the Device overview section for the antenna socket layout. If you have purchased a GPS antenna, remove the socket cap from the GPS antenna socket and attach the antenna to the socket in the same manner.

Step 2: Connect the power and Ethernet cables Connect the included power supply cable. *Note:* If installing into a Vehicle connect the Molex Mini-Fit or receptacle and then connect the green and white breakout wires to the ignition and I/O connections as required. Connect the Power (red) and the Ground (black) wires to your power source.

The power LED on the router lights up when a power source is connected. Attach the supplied Black Ethernet cable to the LAN Ethernet port on your router and the other end to your computer.

Step 3: Access the router's web interface. In your web browser's address bar enter <http://192.168.1.1/> or <http://my.router/>. The login page is displayed. There are two system management accounts (Root Manager and Admin) with different management capabilities.

Root Manager account grants full privileges such as firmware upgrades, device configuration, backup and restore, and reset to factory default settings.

To access the Root Manager account, use these login details.

<http://192.168.1.1> or <http://my.router>

Username root

Password admin

Admin account allows updates to general settings.

To access the Admin account, use these login details.

<http://192.168.1.1> or <http://my.router>

Username admin

Password admin

Enter the username and password for the admin or root manager account and click Log in. The Status page is displayed

Step 4: Unlock the SIM card If the inserted SIM card is PIN locked, a pop-up window is displayed informing you that you must unlock the SIM before use.



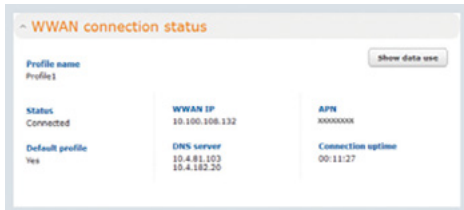
Click the OK button. The SIM Security page is displayed.



In the Current PIN field, enter the SIM PIN and then enter it again in the Confirm current PIN field. If you do not want to enter the PIN code each time the SIM is inserted, select the Remember PIN option. Click the Save button. After a moment, the router displays “Success! The SIM unlock was successful”.

Installing your Device

Click on the Status menu item from the top menu bar. The Status page is displayed. The mobile broadband connection is established successfully if the Status field in the WWAN connection status section displays Connected.



Installing your Device

The The B-Link Secure IP Camera Solution Netcomm router can operate as both an access point and a WiFi client simultaneously, if required. By default the router has the Wireless LAN enabled and operates as an access point only.

Connecting a Wireless Client to the Access Point

The WiFi Network Name (SSID) and WiFi Security Key are unique for your device and are printed on the back of your router. The credentials are also printed on the Wireless Security Card.



Follow these steps to connect your client device to the Internet over the wireless network:

1. Turn on the wireless on your client device.
2. Open the wireless network manager on your client device and connect to the Wireless Network Name (SSID) printed on the Wireless security card.
3. When prompted for your wireless security settings, enter the Wireless Security Key. Wait a few seconds for the connection to be established.

Connecting the router to another access point

To use your router as a client, you must first change the wireless mode on the web user interface. To enable the wireless client:

1. From the top menu bar, select the Networking option.
2. Select Wireless settings on the left, then select the Client configuration menu item.
3. Click the Client radio on/off toggle key so that it is in the ON position then click the Save button.
4. On the Client configuration page, click the Scan button to scan for remote access points to connect to, then click the Connect link corresponding to the desired network. The wireless network's details are copied to the Client configuration fields.
5. If the network requires a password, enter the password in the WPA preshared key field, then click the Save button. The wireless client connects to the access point. You can confirm that it is connected by viewing the WLAN client connection status section of the Status page. For further detail on using the wireless client, refer to the product user guide.

