

User Manual

BandLuxe

K530 Series

LTE M2M & Vehicle Mount Router



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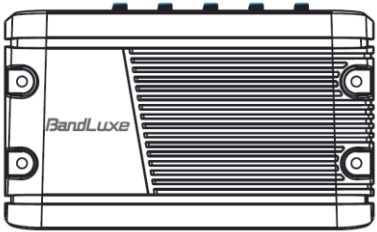
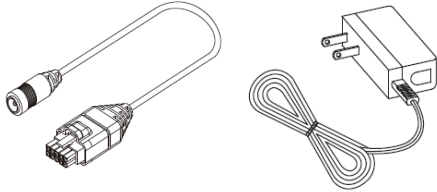
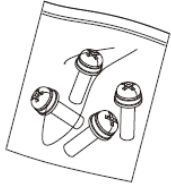
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Package Contents

Thank you for your purchase of this LTE M2M & Vehicle Mount Router. This product is designed to access the Internet via 4G technology and share the bandwidth through a Wi-Fi network. It is easy to configure and operate even for non-technical users. This manual contains instructions for installing and configuring the product. Read the manual carefully before you use the product, so that you can fully exploit the product functions.

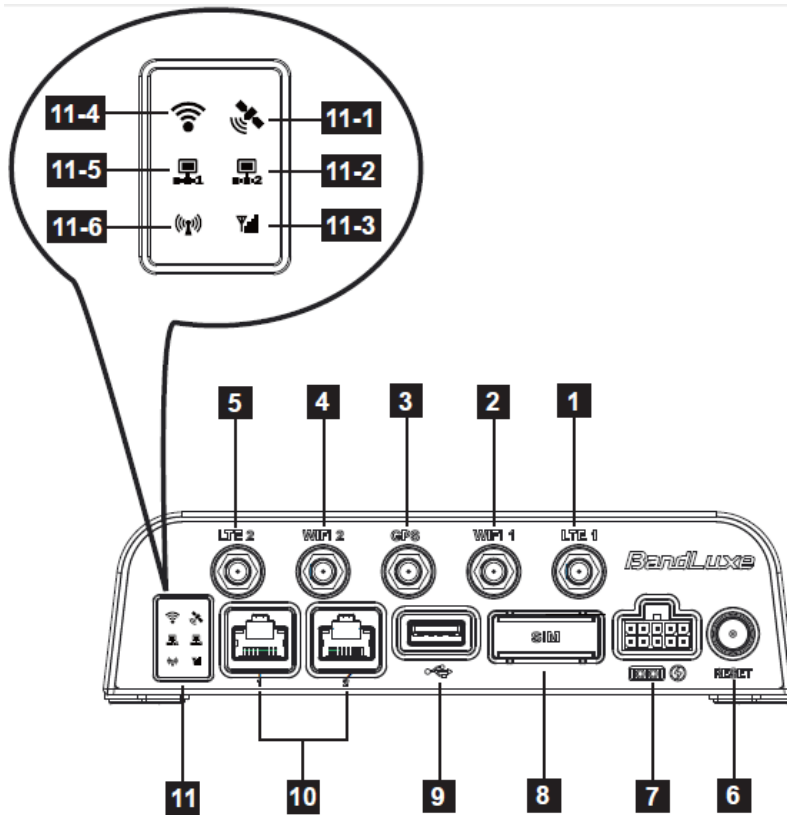
Package Contents

		
<i>K530 series LTE M2M & Vehicle Mount Router</i>	<i>Power Adaptor AC cord Cable</i>	<i>MOUNT_ACCESSORY (M4)</i>

Features

- LTE Cat3 and 3GPP Rel0 compatible with HSPA+ or EVDO fallback support.
- High performance module and router platform targeted for m2m and mission critical applications.
- IP64 and MIL 810 ruggedized design for extreme environments.
- Operation temp: -20~70°C (-4~158°F), 12V or 24V DC, accepting 9~32V voltage swing.
- 5 SMA antenna ports- 2x LTE/HSPA+/EVDO, 2x WiFi, 1xGPS (support 3.3V DC active antenna).
- 802.11 b/g/n 2x2 MIMO wireless networking.
- 6 x LEDs status indication, 2x Ethernet ports, 1x USB port.
- IPSec VPN client and VPN pass-through modes.
- Composite GPS and Glonass for quicker positioning fix and better accuracy.

Hardware Overview



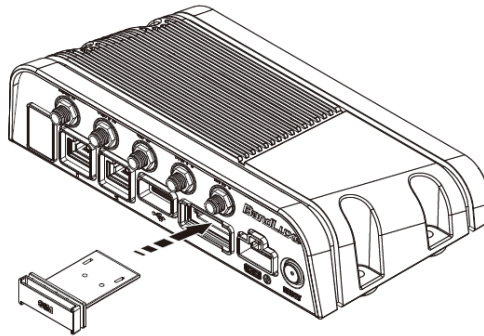
- 1 **4G External Antenna Ports** Connect 4G External Antennas.
- 2 **WiFi External Antenna Ports** Connect WiFi External Antennas
- 3 **GPS External Antenna Port** This connects a GPS antenna to the device.
- 6 **Reset Switch** Restore to factory default settings.
- 7 **Power Port** This connects power to the device.
- 8 **SIM Card Slot** Embedded SIM as default, also 1 x SIM (SIM/USIM) slot for external plug in for back up.
- 9 **USB Port** Connect a Windows PC to it to monitor and configure the device.
- 10 **RJ-45 Ports** This RJ-45 connector connects a standard Ethernet cable to the device.

11	LED indicators	These show the device's operating status.
11-1	GPS LED	(Blue) GPS on
11-2	LAN1 LED	(Blue) LAN port 1 transmitting.
11-3	Signal Strength LED	(Blue) Good (Green) Normal (Red) Bad
11-4	WiFi LED	(Blue) WiFi on
11-5	LAN2 LED	(Blue) LAN port 2 transmitting.
11-6	Network Status LED	(Blue) LTE connection (Green) 3G connection (Red) Error



Connection

1. Insert your SIM card into the slot on the router, making sure the SIM card orientation matches the SIM card slot, as shown in the picture.



2. Connect the power adaptor to the router and connect it to an outlet.
3. One of the following two methods can be chosen to link your PC with the Router.

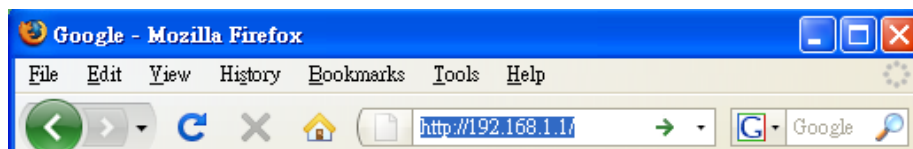
Wireless Connection(for Windows)

To connect your PC to the Router via WiFi, in Microsoft Windows, go to Control Panel > Network Connections. Right click on **Wireless Network Connection** and choose **View Available Wireless Networks**. Select default SSID [BR_LTE_xxxx] and enter default password (Last 8 digits of IMEI). Click **Connect**. The “xxxx” corresponds with the last 4 digits of MAC address.

Wired Connection

To connect your PC to the Router via an Ethernet cable, connect one end of the cable to one of the four LAN ports on the Router, and another end of the cable to an Ethernet port on your computer.

4. The router uses a web-based configuration utility. To access the configuration utility, open a browser and enter the IP address (**http://192.168.1.1**) for the Router in your browser’s address bar.



Enter the router Username (**admin**) and Password (**admin**), and then click .

Appendix B: Specifications

Note: Specifications are subject to change without notice.

WLAN	802.11 b/g/n (2x2 MIMO)	
Cellular Modem	Embedded, 3GPP Rel 9, LTE FDD&TDD/eHRPD/EVDO/CDMA	
Dimension (LxWxH, mm)	160 x 94 x 44	
Weight (g)	474	
Interface		
Reset Button	Yes	
RJ45 Ports	2 x RJ-45, 10/100 LAN ports	
DC Power Jack	12V or 24V, accepting 9~32 V voltage swing	
SIM Slot	Embedded SIM as default, also 1 x SIM slot for external plug in for back up	
USB Port	1 x USB port, for USB client device plug in only. K530S serve as USB host.	
Connectivity and Data Speed		
4G LTE Band	Band 25, Band 26, Band 41	
LTE Data Rate	FDD Downlink up to 100Mbps, Uplink up to 50Mbps TDD Downlink up to 68Mbps, Uplink up to 17Mbps (in configuration 3)	
LTE Bandwidth	Up to 20 MHz	
3G EVDO/CDMA Band	BC0, BC1, BC10	
WLAN	802.11 b/g/n, 2x2 MIMO	
Antenna		
Cellular embedded main antenna	No	
Cellular embedded diversity antenna	No	
Cellular external main antenna port	Yes SMA type	
Cellular external diversity antenna port	Yes SMA type	
WiFi antenna	No Embedded	
WiFi external antenna port	2 x SMA ports	
GPS antenna port	Yes SMA type, supporting 3.3V DC Active Antenna	
Router Features		
Routing	Static Routing, Dynamic Routing (RIP, BGP, OSPF)	
Security	Multiple VPN pass-through (IPSec, PPTP, L2TP), Stateless and SPI Firewall	
NAT-NAPT	Single Port Forwarding, Port Range Forwarding, Port Range Triggering, Port Filtering, IP Filtering, DMZ, UPnP, Multicast Pass-Through	
VPN	IPSec, SSL	
DNS	DNS Agent, DDNS	
Other features	IPv4 and IPv6, TCP, UDP, ICMP, ARP, DHCP Server/Client, HTTP/HTTPs, NTP, ALGs	
Wireless LAN		
802.11b data rate	1/2/5.5/11 Mbps	
802.11g data rate	Up to 54 Mbps	
802.11n data rate	Up to 300 Mbps	
Security Types	WPA/WPA2 AES/TKIP Encryption, WPA/WPA2 PSK, WPA/WPA2 Enterprise, None/64/128 bits WEP Encryption, open system authentication.	
Device Unique Default Encryption Key	Such unique key is linked to IMEI address of the device	
Channel Selection	Auto or Manual	

Other features	SSID broadcast disable, Dual SSID, Access control (MAC filtering), WLAN on/off software switch.	
Status Indication		
6x LED Display	#1 cellular technology (Blue: LTE, Green: EVDO/CDMA, Red: SIM error or service failure) #2 signal strength (tri-color) #3 LAN 1 #4 LAN 2 #5 GPS #6 WiFi	
Software Features		
Web GUI	Yes, Browser supported: IE, Firefox, Safari, Chrome	
Web GUI Language Support	English	
Connection Status in Web GUI	Network name, Signal strength, Roaming indication, Radio technology, Connection status, Connection time, Connection Statistics.	
Connection management	Connection on demand, Connection when available, Auto APN matching with USIM, APN database update through browser-based GUI, APN profile, PIN management, Preferred radio NW type selection	
System protection	Password protected administrator and user access authority (provisioning, configuration, authentication).	
GNSS	Supports GPS and Glonass composite location data for remote server and local access	
Support FW version upgrade	Yes	
Device Management	TR-069, OMA-DM, Remote GUI Log-in	
Environment		
Operation Temperature	-20°C to 70°C (-4°F to 158°F)	
Storage Temperature	-40°C to 85°C (-40°F to 185°F)	
Operating Humidity	10% to 85% Non-Condensing	
Storage Humidity	5% to 90% Non-Condensing	
Certification & Conformance		
	RoHS, IP64, MIL 810-G, FCC, Sprint Certification	

Appendix C: Important Safety Information and Glossary

Federal Communications Commission

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must be fixed to US operation channels only.