

# InRouter600-S Series

## Industrial LTE Router



The InRouter600-S (also IR600-S) is a series of IoT router that supports 3G/4G, Wi-Fi and VPN. It provides easy network access for field devices with 3G/4G wireless WAN and Wi-Fi wireless LAN, helps to build device networks scaling up to tens of thousands.

With embedded hardware & software watchdogs and multi-layer link detection mechanism, the router safeguards stable and highly-reliable communications for field sites, especially unattended sites. It also supports InHand Device Manager for efficient remote network management.

Multiple VPN encryption technologies can ensure secure data transmission, preventing malicious data access and tampering. The user-friendly WEB interface will drastically reduce network configuration difficulty.

The IR600-S series is suitable for large-scale device networking, such as EV charging poles, self-service lockers, vending machines, multimedia advertising equipment, smart medical devices, etc.

## PRODUCT ADVANTAGES

### Uninterrupted Internet access

- + 3G/4G networks of major telecom operators worldwide
- + Fast Ethernet and multiple DSLs
- + Wi-Fi 802.11b/g/n, transmission rate up to 300Mbps, AP/STA mode

### High reliability design

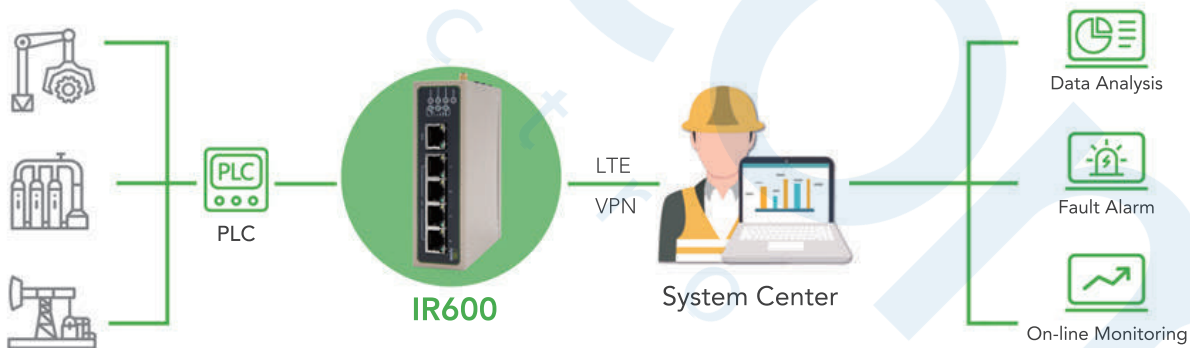
- + Industrial-grade design, wide temperature and voltage tolerance, high EMC rating (IR611-S: EMC Class II, IR615-S: EMC Class III), IP30
- + Hardware and software watchdog
- + Multi-layer link detection mechanism auto recovers from faults, requiring no human intervention
- + Multiple link backups to ensure devices are persistently online

### Easy to deploy and manage

- + A variety of installation methods offered, including DIN-rail, lug mounting, and wall mounting, to suit various installation sites
- + Support APN auto-adapting, requiring zero user configuration on simple public network connection
- + Supports WEB, CLI configuration
- + Supports InHand Device Manager for efficient remote central network management

### Comprehensive security protection

- + Multiple VPN encryption
- + Network firewall
- + Secure access management targeting at network administrators



## MODEL SELECTION GUIDE

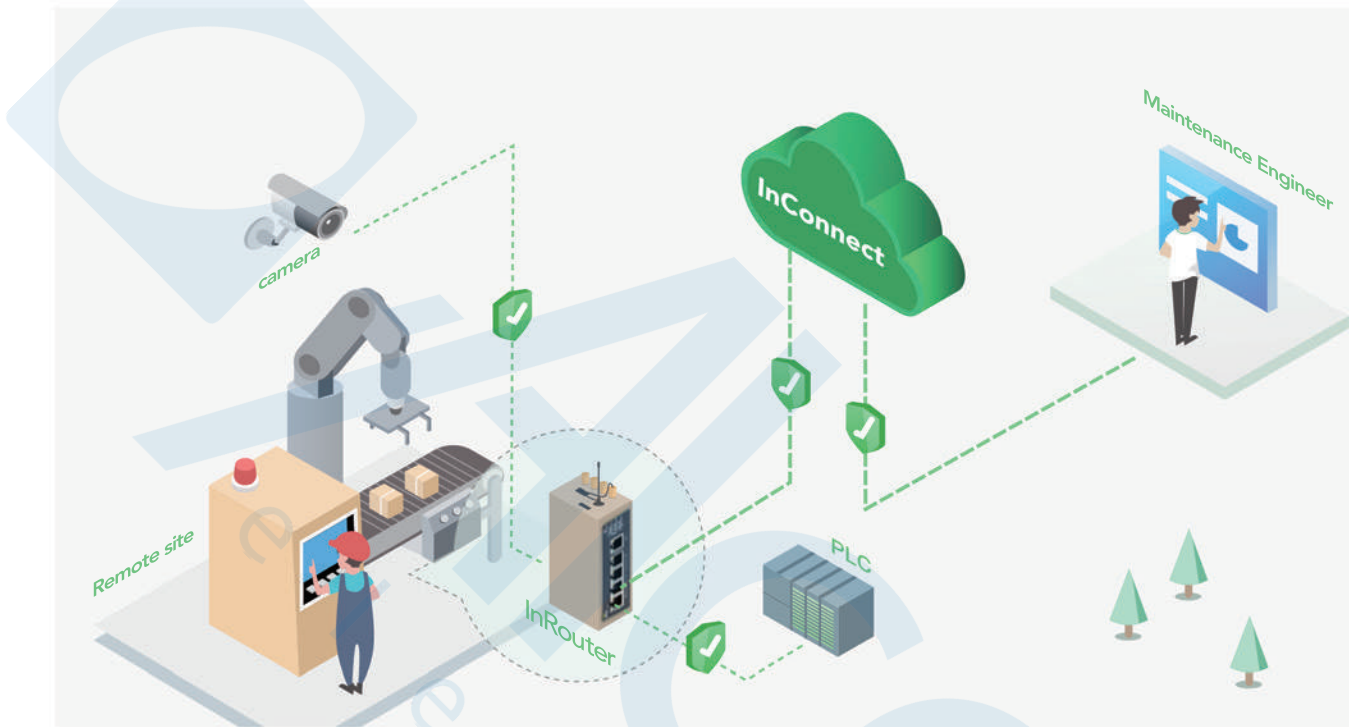
Model	Model code: IR611-S-<WMNN>-<WLAN/NA>-<S>		
	<WMNN>: Cellular Type & Module	<WLAN/NA>: WLAN	<S>: Serial Port
IR611-S-PS08-<WLAN/NA>	(For Global) UMTS(HSPA+) Band 1/2/5/8 (850/900/1900/2100MHz) EDGE/GPRS/GSM 850/900/1800/1900	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-TL00-<WLAN/NA>	(For China, LTE CAT4) LTE-FDD Band 1/3/5/8 LTE-TDD Band 38/39/40/41 HSPA+/UMTS: Band 1/5/8/9 EDGE/GPRS/GSM: 900/1800MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-TL01-<WLAN/NA>	(For China, LTE CAT4) LTE-FDD Band 1/3/5/8 LTE-TDD Band 34/38/39/40/41 WCDMA Band 1/8 TD-SCDMA Band 34/39 CDMA/EVDO BCO GSM/EDGE Band 3/8	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FH20-<WLAN/NA>	(For Europe, Asia & Pacific area, LTE CAT4) LTE-FDD Band 1/2/3/5/7/8/20 UMTS(DC-HSPA+) Band 1/2/5/8 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FQ38-<WLAN/NA>	(For North America, Verizon Wireless, LTE CAT4) LTE-FDD Band 2/4/5/12/13/14/66/71 UMTS(DC-HSPA+) Band 2/4/5	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FQ78-<WLAN/NA>	(For Australia & South America, LTE CAT4) LTE-FDD Band 1/2/3/4/5/7/8/28 LTE-TDD Band 40 WCDMA Band 1/2/5/8 GSM Band 2/3/5/8	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FQ88-<WLAN/NA>	(For Japan, LTE CAT4) LTE FDD Band 1/3/8/18/19/26 LTE TDD Band 41 WCDMA Band 1/6/8/19	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FS18-<WLAN/NA>	(For North America, AT&T, LTE CAT3) LTE-FDD Band 2/4/5/17 UMTS(HSPA+) Band 2/4/5 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FS39-<WLAN/NA>	(For North America, T-Mobile, Verizon Wireless, AT&T, LTE CAT6) LTE-FDD Band 2/4/5/12/13/29 UMTS(HSPA+) Band 2/4/5 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FB02-<WLAN/NA>	(For Global) LTE CATM/NB Band 1/2/3/4/5/8/12/13/17/18/19/20/25/26/28 (and band 39 in M1-only)	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FB13-<WLAN/NA>	(For North America, AT&T, T-Mobile, LTE CAT1) LTE-FDD CAT1 Band 2/4/12	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FB23-<WLAN/NA>	(For North America, Verizon Wireless, LTE CAT1) LTE-FDD CAT1 Band 4/13	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FB53-<WLAN/NA>	(For Europe, LTE CAT1) LTE-FDD Band 3/7/20 EDGE/GPRS/GSM 900/1800MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-FB63-<WLAN/NA>	(For APAC, LTE CAT1) LTE-FDD Band 3/8/28 UMTS(DC-HSPA+) 2100	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
IR611-S-EN00-<WLAN/NA>	No cellular module	WLAN: Wi-Fi <NA>: no Wi-Fi	<NA>: RS232
Example:	IR611-S-PS08-WLAN: one Ethernet port IR611-S series cellular router, support IPSec/PPTP/L2TP/OPEN VPN, support HSPA+ network, support Wi-Fi AP&STA modes, RS232 serial port		

# MODEL SELECTION GUIDE

Model	Model code: IR615-S-<WMNN>-<W/NA>-<DS/NA>		
	<WMNN>: Cellular Type & Module U-UMTS(HSPA), L-LTE single mode, L3-LTE triple-mode, L5-LTE 5-mode, L7-LTE 7-mode	<WLAN/NA>: WLAN	<DS/NA>: Dual SIM
IR615-S-U<PS08/30108>-<WLAN/NA>-<DS/NA>	(Global) UMTS(HSPA+) Band 1/2/5/8 (850/900/1900/2100MHz) EDGE/GPRS/GSM 850/900/1800/1900	WLAN: Wi-Fi <NA>: no Wi-Fi	<DS>: dual SIM <NA>: single SIM
IR615-S-L5<TH09/60218>-<WLAN/NA>-<DS/NA>	(For China, LTE CAT4) LTE-FDD Band 1/3/5/8      LTE-TDD Band 38/39/40/41 HSPA+/UMTS 1/5/8/9 EDGE/GPRS/GSM 900/1800MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<DS>: dual SIM <NA>: single SIM
IR615-S-L7<TL01/60522>-<WLAN/NA>-<DS/NA>	(For China, LTE CAT4) LTE-FDD Band 1/3/5/8      LTE-TDD Band 34/38/39/40/41 TD-SCDMA Band 34/39      WCDMA Band 1/8 CDMA/EVDO BCO      GSM Band 3/8	WLAN: Wi-Fi <NA>: no Wi-Fi	<DS>: dual SIM <NA>: single SIM
IR615-S-L3<FH20/60220>-<WLAN/NA>-<DS/NA>	(For Europe, Asia & Pacific area, LTE CAT4) LTE-FDD Band 1/2/3/5/7/8/20 UMTS(DC-HSPA+) Band 1/2/5/8 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<DS>: dual SIM <NA>: single SIM
IR615-S-FQ38-<WLAN/NA>	(For North America, Verizon Wireless, LTE CAT4) LTE-FDD Band 2/4/5/12/13/14/66/71 UMTS(HSPA+) Band 2/4/5	WLAN: Wi-Fi <NA>: no Wi-Fi	Single SIM
IR615-S-FQ78-<WLAN/NA>	(For Australia & South America, LTE CAT4) LTE-FDD CAT4 Band 1/2/3/4/5/7/8/28 LTE-TDD Band 40 WCDMA Band 1/2/5/8      GSM Band 2/3/5/8	WLAN: Wi-Fi <NA>: no Wi-Fi	Dual SIM in default
IR615-S-FQ88-<WLAN/NA>	(For Japan, LTE CAT4) LTE FDD Band 1/3/8/18/19/26 LTE TDD Band 41 WCDMA Band 1/6/8/19	WLAN: Wi-Fi <NA>: no Wi-Fi	Dual SIM in default
IR615-S-FB02-<WLAN/NA>	(Global) LTE CATM/NB Band 1/2/3/4/5/8/12/13/ 17/18/19/20/25/26/28 (and band 39 in M1-only)	WLAN: Wi-Fi <NA>: no Wi-Fi	Single SIM
IR615-S-FB13-<WLAN/NA>	(For North America, AT&T, T-Mobile, LTE CAT1) LTE-FDD CAT1 Band 2/4/12	WLAN: Wi-Fi <NA>: no Wi-Fi	Dual SIM in default
IR615-S-FB23-<WLAN/NA>	(For North America, Verizon Wireless, LTE CAT1) LTE-FDD CAT1 Band 4/13	WLAN: Wi-Fi <NA>: no Wi-Fi	Dual SIM in default
IR615-S-FB53-<WLAN/NA>-<DS/NA>	(For Europe, LTE CAT1) LTE-FDD CAT1 Band 3/7/20 EDGE/GPRS/GSM 900/1800MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	<DS>: dual SIM <NA>: single SIM
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IR615-S-FS18-<WLAN/NA>	(For North America, AT&T, LTE CAT3) LTE-FDD Band 2/4/5/17 UMTS(HSPA+) Band 2/4/5 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	Single SIM
IR615-S-FS39-<WLAN/NA>	(For North America, Verizon Wireless, AT&T, T-Mobile, LTE CAT6) LTE-FDD Band 2/4/5/12/13/29 UMTS(HSPA+) Band 2/4/5 EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-Fi	Dual SIM in default
IR615-S-EN00-<WLAN/NA>	No cellular module	WLAN: Wi-Fi <NA>: no Wi-Fi	Single SIM
Example:	IR615-S-FS39-WLAN: Five Ethernet ports IR615-S series cellular router, supports IPsec/PPTP/L2TP/OPEN VPN, 4G LTE CAT 6, supports Wi-Fi AP&STA modes, one serial port with RS232 and RS485 mode		

# InConnect

## Cloud Connection Service



InHand Connect Service, referred to as InConnect, quickly builds network connections for distributed IoT sites to make your device networking much easier. InConnect features easy deployment, easy connection, easy expansion, and secure transmission.

The InConnect helps users quickly build IoT networks to enable remote maintenance and remote monitoring of field devices through the cloud service. Customers can remotely locate faults through the network connection and reduce losses caused by equipment failures. At the same time, it can also provide reliable, convenient, and secure data connection service for IoT big data collection, transmission, and product lifecycle management.

## PRODUCT ADVANTAGES

### Fast building of connections

Customers don't need to construct their own central networks. The InConnect provides a one-click connection service enabling customers to access field devices at anytime, anywhere.

### End-to-end access

Through the InConnect cloud service, users can access devices on distributed sites remotely; it also supports access between devices on different sites.

### Automatic configuration

The InConnect provides automatic configuration, completing configuration in one click on the cloud, with InRouters automatically registered to the cloud platform.

### Secure data transmission

User clients and InRouters need to access InConnect through CA digital certificate authentication, and data transmission processes are protected by encryption algorithms.

### Easy to manage

Users can log in InConnect with a web browser to manage data traffic, online status of gateways, batch upgrade, task logs, etc.

Secure remote access to field devices is key to IoT applications. However, building a secure remote network can be complicated and requires a large amount of complex configurations. To facilitate device access for IoT systems of various industries, InHand Networks launched the InConnect service, which helps customers to connect to distributed sites easily and securely from any location at any time.

