

## Product Description

The KBC ThruLink™ Series 3<sup>rd</sup> generation is a hardware VPN device that allows secure communications to be established over any standard, public or private IP network. ThruLink performs behind firewalls, NAT devices and through almost any other type of network configuration and offers encrypted communication for all IP protocols regardless of the type of traffic. When deployed, ThruLink provides a secure and encrypted tunnel for network communications that will not affect TTL, UPnP, VLAN information, broadcast, multicast, or any other traffic. A built-in modem provides 4G connectivity and supports all primary network providers, without the need for a fixed public IP address.



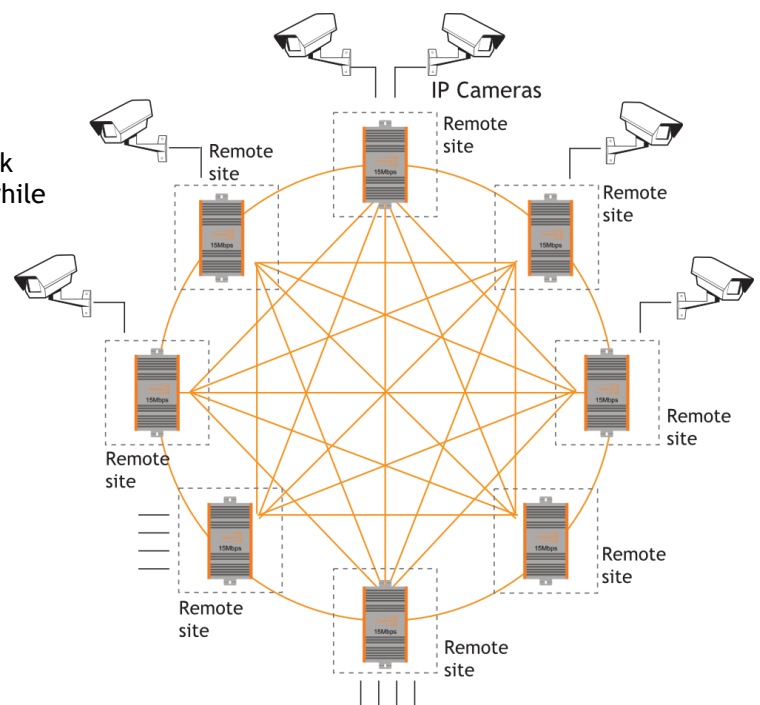
In addition to star-based applications, ThruLink creates a dynamic mesh network, allowing direct connection without the need for a centralized gateway server.

## Product Features

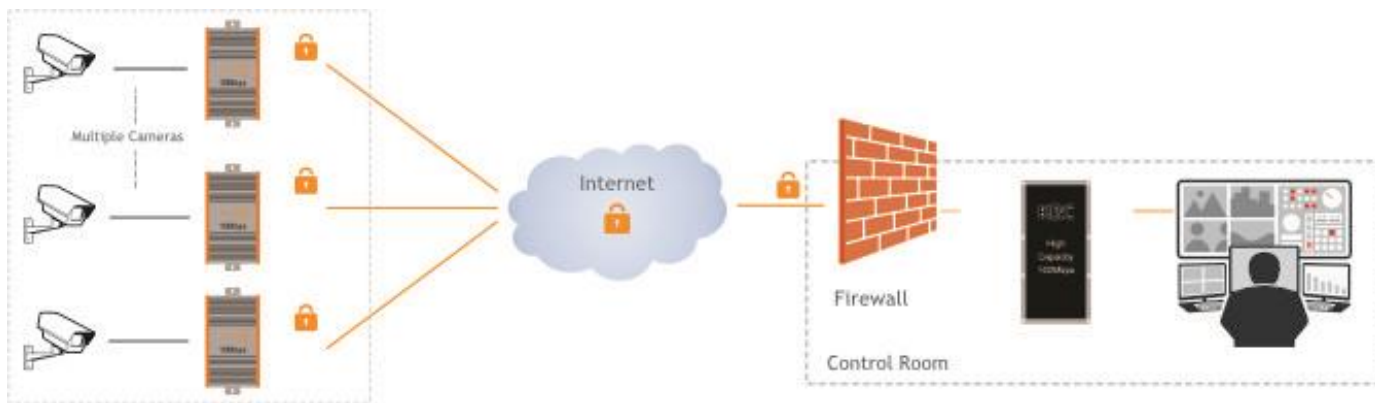
- Encrypted communication supports up to 256bit encryption ciphers
- Throughput: Standard: 15Mbps, Standard Plus: 30Mbps
- Optimized for video transmission, supports any IP traffic
- Operates over any public or private network, including 4G/LTE networks
- Band28 optional
- Wireless access point is standard on all models
- Creates a dynamic mesh network - no central server requirement
- Multiple failover option (available option upon request)
- Simple installation
- Easy-to-use graphical user interface
- No need to make network changes
- Diagnostic tools: network traffic monitoring ping function
- IPv4 and IPv6 support
- DHCP service on LAN port
- Built to perform in non-conditioned environments

## Meshed System Configuration

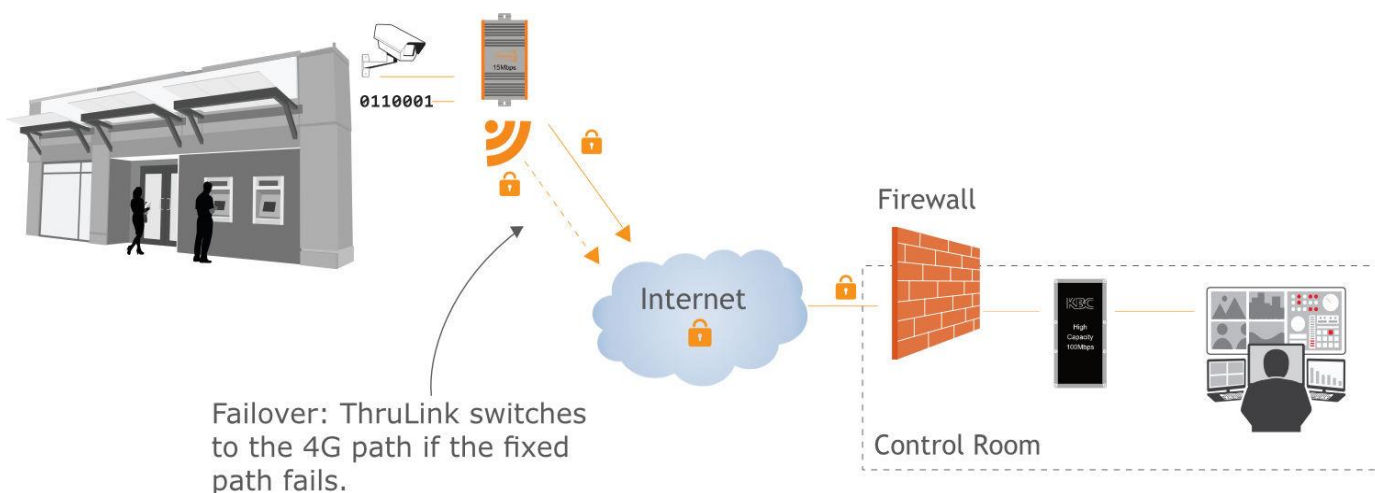
ThruLink enables an end-to-end encrypted mesh network to be established, thus providing network redundancy while allowing a direct connection without the need for a central authentication gateway server.



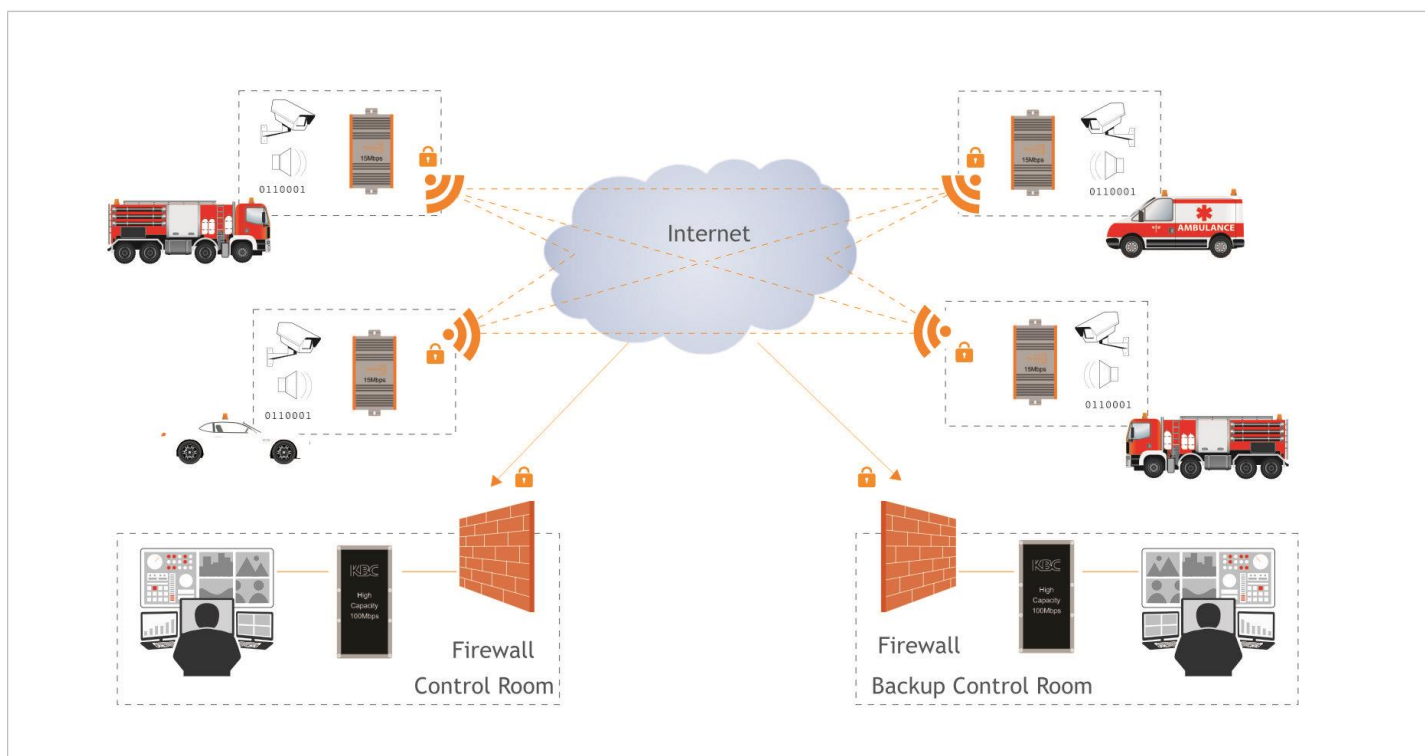
## CCTV or Intelligent Transport System with Multiple Sites



## ATM Application: Secure Video & Data over the Internet with Failover to 4G



## Emergency Services Major Incident: Secure Video, Voice & Data over 4G



# Specifications

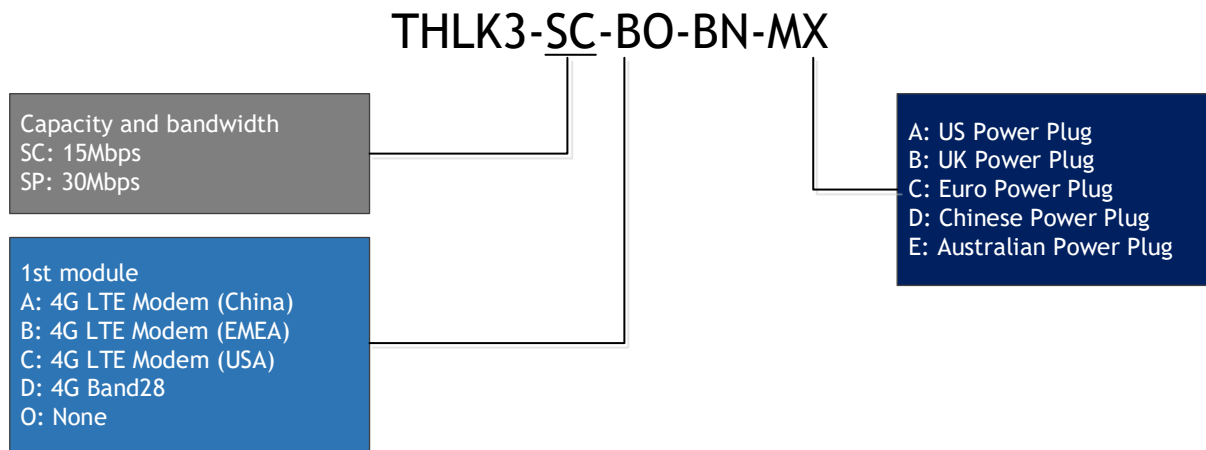
## ThruLink™ 3<sup>rd</sup> Generation, Standard (SC) / Standard Plus (SP)

<b>Throughput</b>	Standard Standard Plus	15Mbps 30Mbps	<b>Environmental</b>	Operating Temperature Operating Humidity Mean Time Between Failure (MTBF)	-40° ~ +70°C / -40° ~ 158°F 0 to 95% non-condensing > 200,000 Hours
<b>Encryption</b>		AES: 128/192/256bit Blowfish: 128/192/256bit Camellia: 128/192/256bit SHA1, SHA256 <sup>(1)</sup> RSA: 2048 FIPS 140-2 <sup>(2)</sup>	<b>Mechanical</b>	Dimensions (L x W x H)	85mm x 174.6mm x 34.6mm / 3.35" x 6.87" x 1.36"
<b>Management User Interface</b>		web GUI	<b>Connectors</b>	10/100M Ethernet 4G WIFI Power	2 x RJ45 2 x SMA (male) SMA (female) Terminal block
<b>Antennas</b>		Please contact KBC Networks for details	<b>Power</b>	Input Voltage	9-30Vdc (normal: 12v) Suitable for 12 or 24v power supplies 3-4 watts (dependent on cellular module)
<b>WIFI</b>		Access Point		Consumption	
		1 x 1 802.11N 2.4/5GHz Dual-band MIMO WPA2 security level			
<b>4G LTE<sup>(3)</sup></b>					
EMEA/Korea/Thailand		LTE-TDD B38/B40/B41 LTE-FDD B1/B3/B5/B7/ B8/B20 UMTS/HSPA+ B1/B5/B8 GSM/GPRS/EDGE 900/ 1800MHz	Australia/N. Zealand/S. America		LTE-TDD B40 LTE-FDD B1/B2/B3/B4/B5/B7/ B8/B28 UMTS/HSPA+ B1/B2/B5/B8 GSM/GPRS/EDGE 850/900/ 1800/1900MHz
EMEA/Korea/Thailand with Band28		LTE-TDD B38/B40/B41/B28 LTE-FDD B1/B3/B5/B7/ B8/B20/B28 UMTS/HSPA+ B1/B5/B8/B28 GSM/GPRS/EDGE 700/900/ 1800MHz	Japan Global		LTE-FDD B1/B3/B8/B18/B19/B26  LTE-TDD B34/B38/B40/B41 LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13 B18/B19/B20/B25/B26/B28/B66 UMTS/HSPA+ B1/B2/B4/B5/B6 B8/B19 GSM/GPRS/EDGE 850/900/1800/1900MHz
North America		LTE-FDD B2/B4/B12 UMTS/HSPA+ B2/B5			
Verizon		LTE-FDD B2/B4/B5/B13			

### Regional Frequency Bands

Every region makes use of different frequencies and duplexing bands that comply with local wireless licensing regulations. This has resulted in a range of KBC ThruLink LTE models that are tuned to comply with region frequencies, protocols, power and duplexing. If you are using any private certified frequencies that are not covered within your region, then please get in contact with a KBC representative.

## Part Number Configurator



- (1) Automatically set depending on encryption type used.
- (2) Please contact us for FIPS compliant encryption library.
- (3) When working over cellular networks, one of the RJ45 interfaces will be disabled.
- (4) Please request the region requirement when purchasing.

*Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.*