

Product Description

The KBC ThruLink™ Series 3rd generation is an **industrial-grade hardware VPN gateway** engineered to deliver secure, reliable connectivity across public and private IP networks in **remote, harsh, and mission-critical environments**.

Designed for deployment in non-conditioned locations, ThruLink operates across major cellular and IP network providers and enables encrypted communication across networks behind firewalls and NAT devices, without requiring network reconfiguration or fixed public IP addresses.

With integrated 4G LTE connectivity and support for dynamic mesh networking, ThruLink provides **resilient communication** for distributed systems and critical infrastructure.

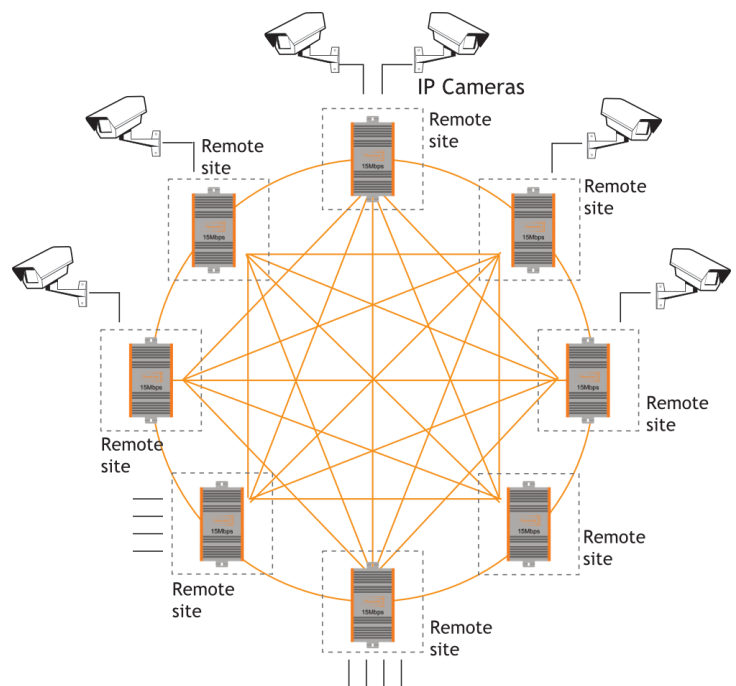


Product Features

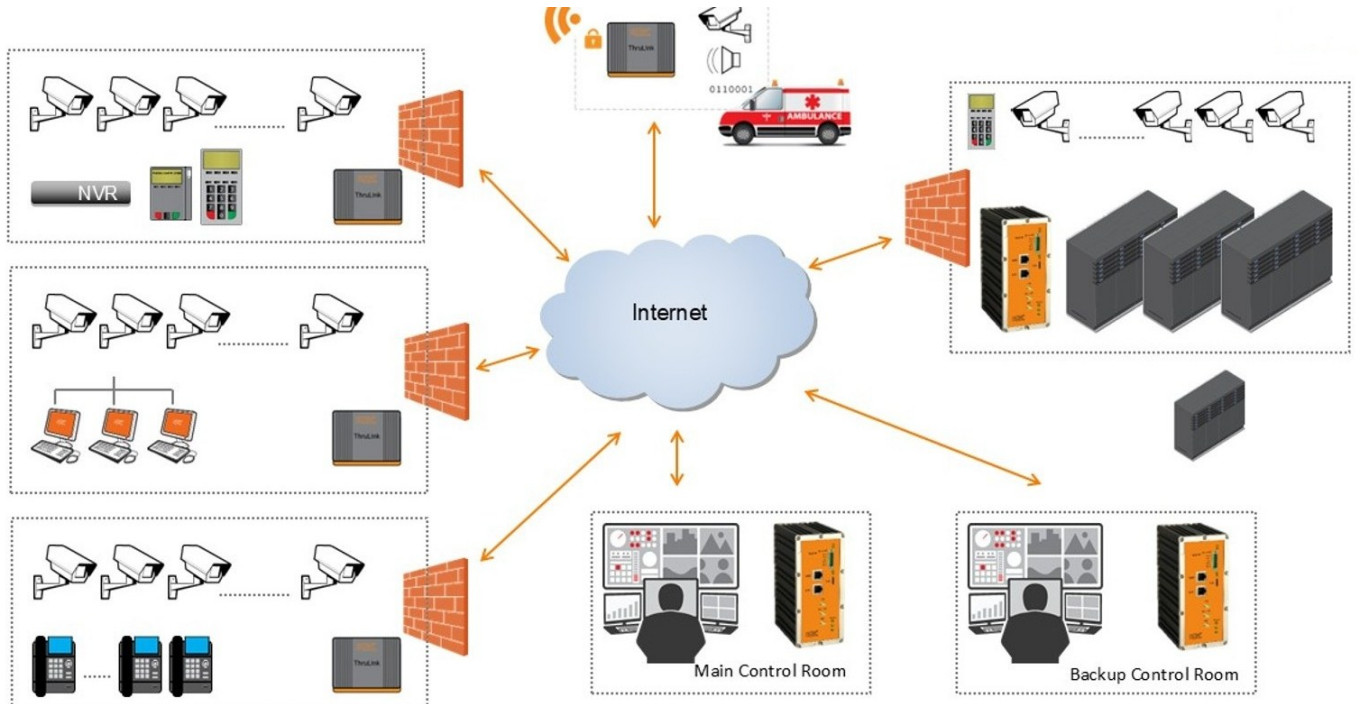
- Industrial-grade design for operation in non-conditioned environments
- Encrypted communication supporting up to 256bit encryption ciphers
- Throughput: Standard 15Mbps, Standard Plus 30Mbps
- Optimized for video transmission and supports all IP traffic
- Operates over any public or private IP network, including 4G/LTE
- Wireless access standard on all models (dual-band 2.4/5GHz)
- Dynamic mesh networking with no central server requirement
- Multiple failover options for network resilience
- Simple and rapid deployment with no changes to existing networks
- Easy-to-use graphical user interface (GUI)
- Integrated diagnostic tools (traffic monitoring, ping function)
- IPv4 and IPv6 support
- DHCP service on LAN port
- Band28 optional

Meshed System Configuration

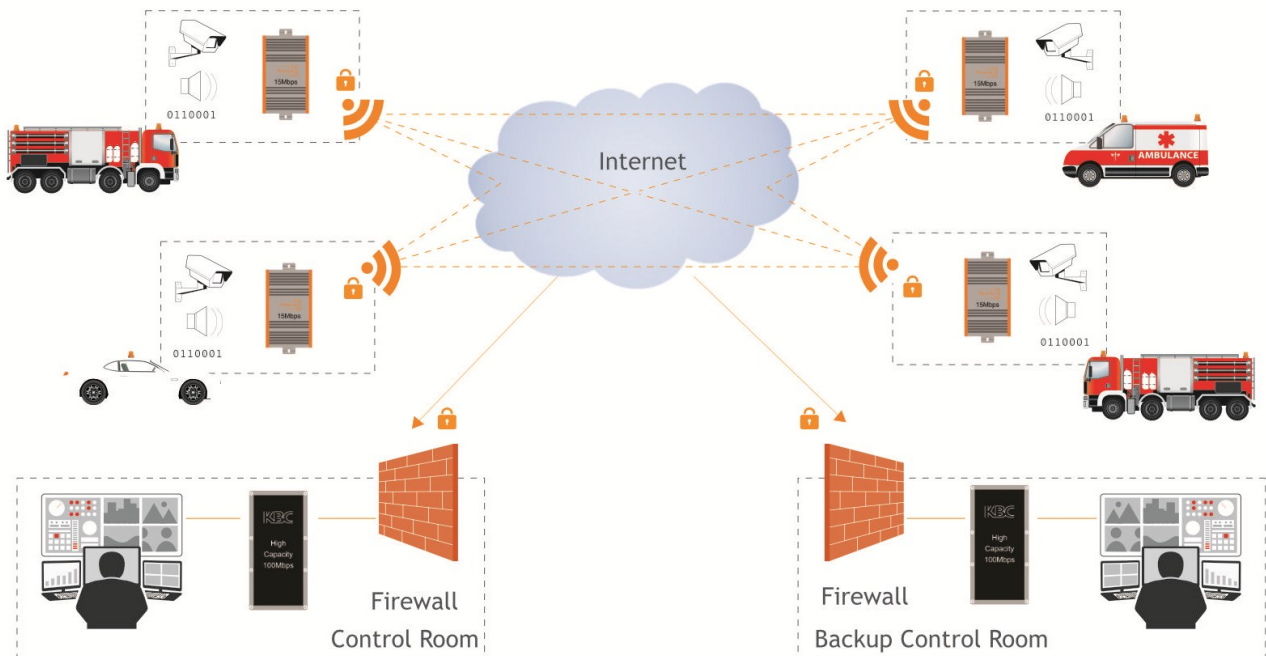
ThruLink enables the creation of a fully meshed, end-to-end encrypted network, allowing direct communication between remote sites, elimination of centralized authentication servers and increased redundancy and network resiliency.



Typical Multi-Site Application



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



Specifications

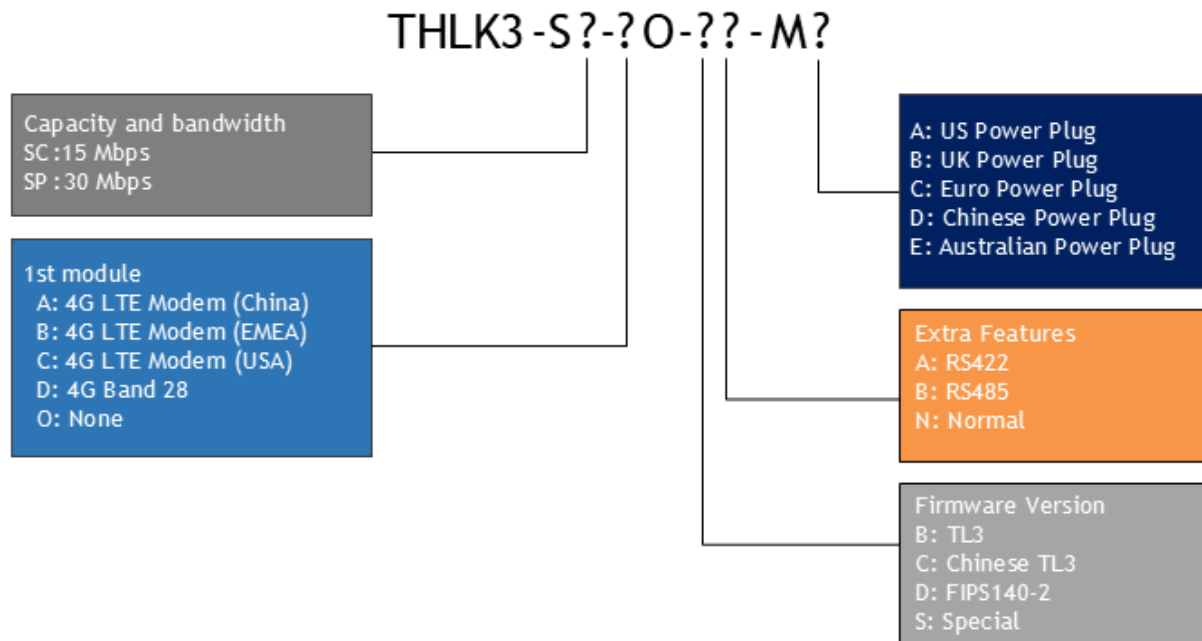
ThruLink™ 3rd Generation, Standard (SC) / Standard Plus (SP)

Throughput		Environmental	
Standard	15Mbps	Operating Temperature	-40° ~ +70°C / -40° ~ 158°F
Standard Plus	30Mbps	Operating Humidity	0 to 95% non-condensing
		Mean Time Between Failure (MTBF)	> 200,000 Hours
Encryption		Mechanical	
AES: 128/192/256bit		Dimensions (L x W x H)	85mm x 174.6mm x 34.6mm / 3.35" x 6.87" x 1.36"
Blowfish: 128/192/256bit			
Camellia: 128/192/256bit			
SHA1, SHA256 ⁽¹⁾			
RSA: 2048			
FIPS 140-2 ⁽²⁾			
Management User Interface		Connectors	
web GUI		10/100M Ethernet	2 x RJ45
		4G	2 x SMA (male)
		WIFI	SMA (female)
		Power	Terminal block
Antennas			
Please contact KBC Networks for details			
WIFI		Power	
Access Point	1 x 1 802.11N 2.4/5GHz	Input Voltage	9-30Vdc (normal: 12v)
	Dual-band MIMO		Suitable for 12 or 24v power supplies
	WPA2 security level	Consumption	3-4 watts (dependent on cellular module)
Serial Communication			
RS-422 (TIA/EIA-422)	Electrically isolated, 2 twisted pairs (4 wires), edge terminated, isolated 5V reference option. 10Mb/s capacity with cable lengths less than 8 meters (26 feet).		
RS-485 (TIA/EIA-485)	Electrically isolated, 1 twisted pair (2 wire), edge terminated. 10Mb/s capacity with cable lengths less than 8 meters (26 feet).		
4G LTE			
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	LTE-FDD B1/B3/B8/B18/B19/B26
North America	LTE-FDD B2/B4/B12 UMTS/HSPA+ B2/B5	Global	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
Verizon	LTE-FDD B2/B4/B5/B13		

Regional Frequency Bands

Every region uses 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 available in your region, please contact a KBC representative.

Part Number Configurator



- (1) Automatically set depending on the encryption type used.
- (2) Please contact us for a FIPS-compliant encryption library.
- (3) Please request the region requirement when placing your order.

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