

Product Description

The KBC ThruLink™ Series 3rd generation is a hardware VPN gateway that establishes secure communications 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 5G NR and LTE Cat16 connectivity, supporting all primary network providers without needing a fixed public IP address.



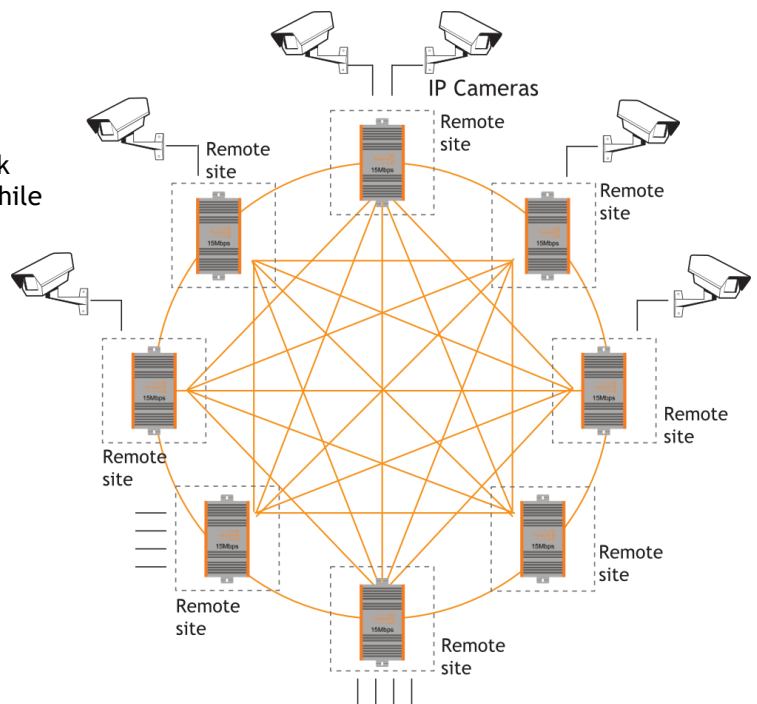
In addition to star-based applications, ThruLink creates a dynamic mesh network, allowing direct connection without needing a centralized gateway server.

Product Features

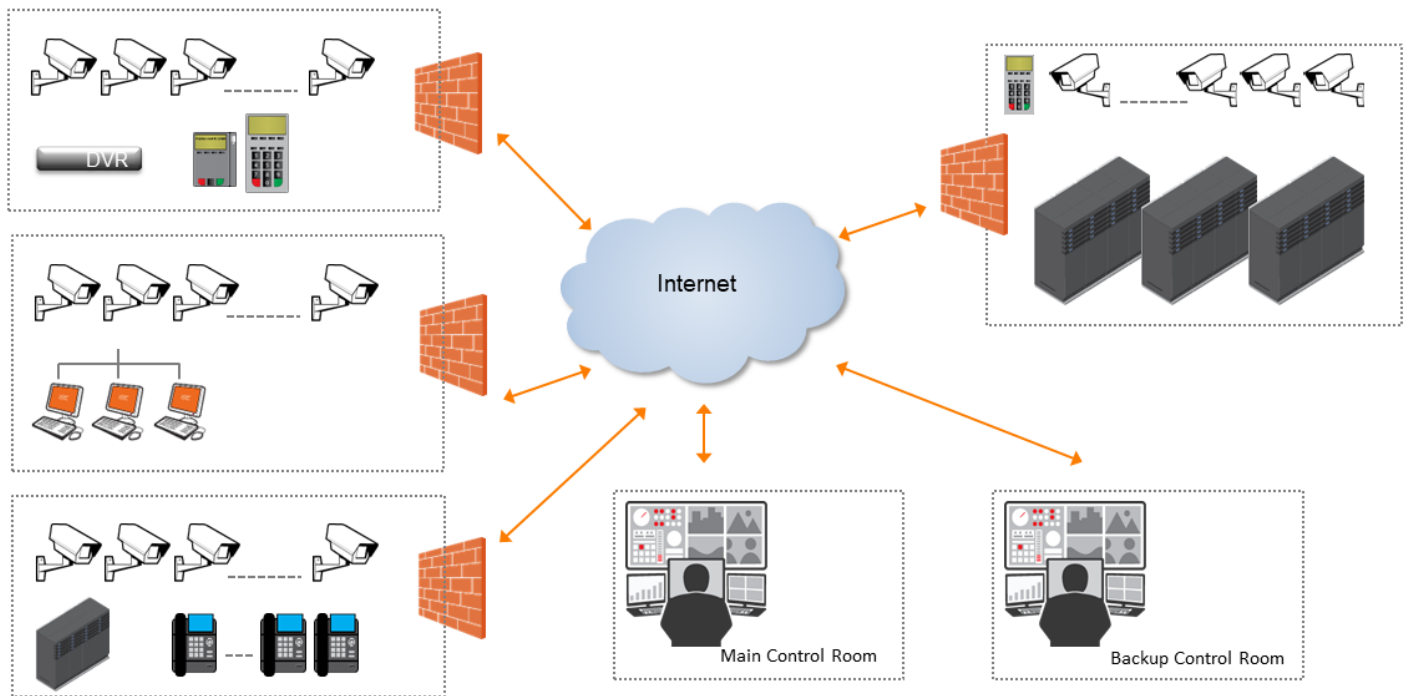
- Encrypted communication supports up to 256bit encryption ciphers
- Encrypted Throughput: Standard: 20Mbps, Standard Plus: 40Mbps
- Optimized for video transmission, and supports any IP traffic
- Operates over any public or private network, including 5G SA/NSA and LTE networks
- Creates a dynamic mesh network - no central server requirement
- Multiple failover option (available upon request)
- Simple installation
- Layer 3 Routing Features
- 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 centralized authentication gateway server.



Typical Multi-Site Application



verizon

AT&T

T Mobile

Specifications

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

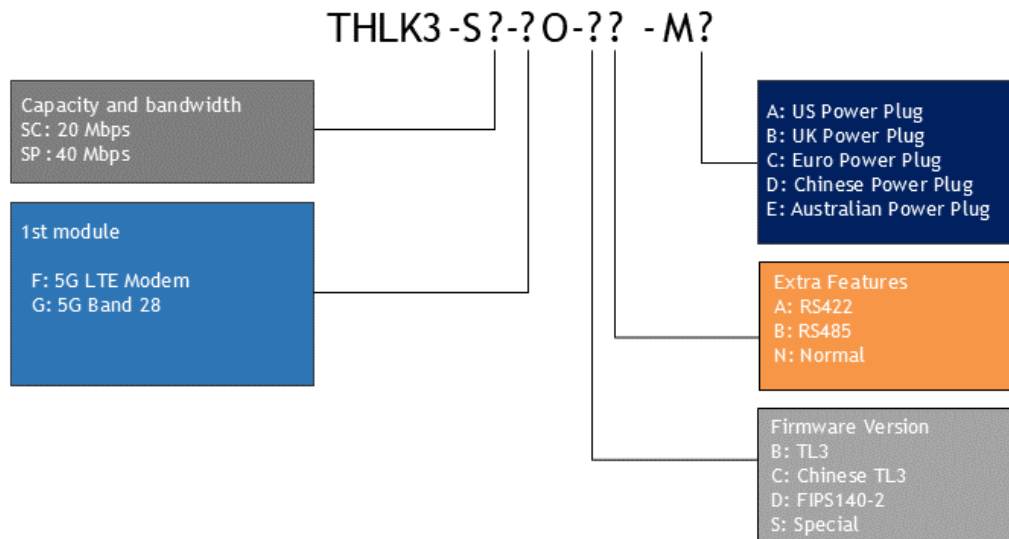
Throughput	(This is the encryption throughput)	Environmental	
Standard	20Mbps	Operating Temperature	-40° ~ +70°C / -40° ~ 158°F
Standard Plus	40Mbps	Operating Humidity	0 to 95% non-condensing
		Mean Time Between Failure (MTBF)	> 200,000 Hours
Encryption	AES: 128/192/256bit Blowfish: 128/192/256bit Camellia: 128/192/256bit SHA1, SHA256 ⁽¹⁾ RSA: 2048 FIPS 140-2 ⁽²⁾	Mechanical	
		Dimensions (L x W x H)	85mm x 174.6mm x 34.6mm / 3.35in x 6.87in x 1.36in
Management User Interface	web GUI	Connectors	
		10/100M Ethernet	2 x RJ45 (configurable as DUAL LAN)
Antennas	Please contact KBC Networks for details.	5G NR /LTE Cat16	4 x SMA (male)
		Power	Terminal block
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).		
5G NR ⁽³⁾		Power	
Band (SA/NSA)	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/ N41/n48/n66/n71/n77/n78/n79	Input Voltage	9-30Vdc (normal 12v) Suitable for 12 or 24v power supply.
4G LTE ⁽³⁾		Consumption	
LTE-FDD	B1/B2/Be/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/ B20/B25/B26/B28/B29/B30/B32/B46/B66/B71		3-4 watts (dependent on cellular Module)
LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48		

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 tuned to comply with region frequencies, protocols, power, and duplexing. If you are using any privately certified frequencies that are not covered within your region, please contact a KBC representative.

- (1) Automatically set depending on the encryption type used.
- (2) Please contact KBC for FIPS compliant encryption library.
- (3) When working over cellular networks, one of the RJ45 interfaces will be disabled. This can be configured for a DUAL LAN port if required.

Part Number Configurator



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