ThruLinkTM Series
Standard / Standard+

Encrypted, Hardware VPN Transmission
System With Embedded 3G/4G Connectivity

Product Description

The KBC ThruLink is a hardware VPN device that allows secure communications to be established over any standard, public or private TCP/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 3G/4G connectivity and supports all primary network providers.

In addition to star-based applications, ThruLink supports mesh-based networks allowing direct connection without the need for central server authentication.
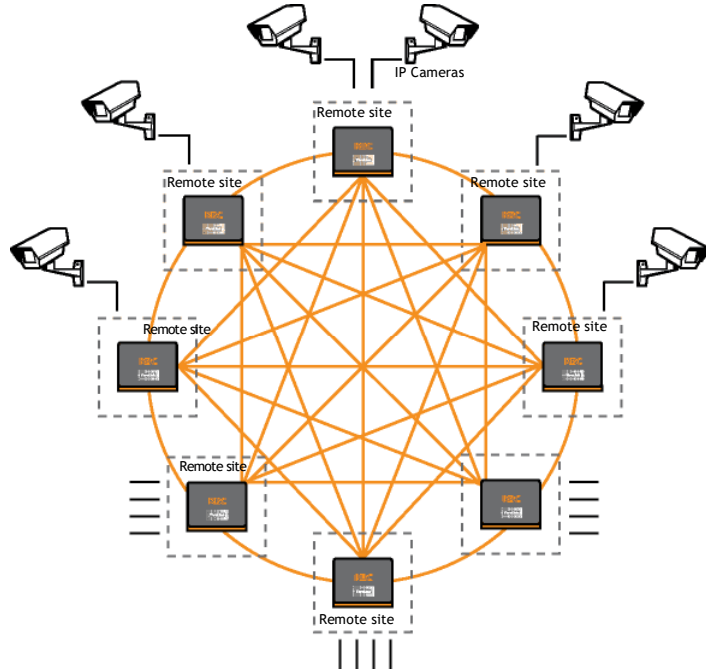
Product Features

- Encrypted communication up to 256bit via tunneling
- Throughput: Standard: 15Mbps, Standard Plus: 30Mbps
- Optimized for video
- Configurable for 3G/4G networks
- Supports mesh applications - no central server requirement
- Multiple failover
- Simple installation
- Easy-to-use graphical user interface
- No need to make network changes
- Diagnostic tools: network traffic monitoring, basic traceroute and ping function
- IPv4 and IPv6 support
- DHCP
- PoE supported on WAN port (PD device)
- Secure encrypted certificate based connection (RSA)
- DHCP service on LAN port (optional)
- Built to perform in non-conditioned environments
- Supports RS-485 data transmission

Typical System Configurations

* With or without firewalls/NAT devices
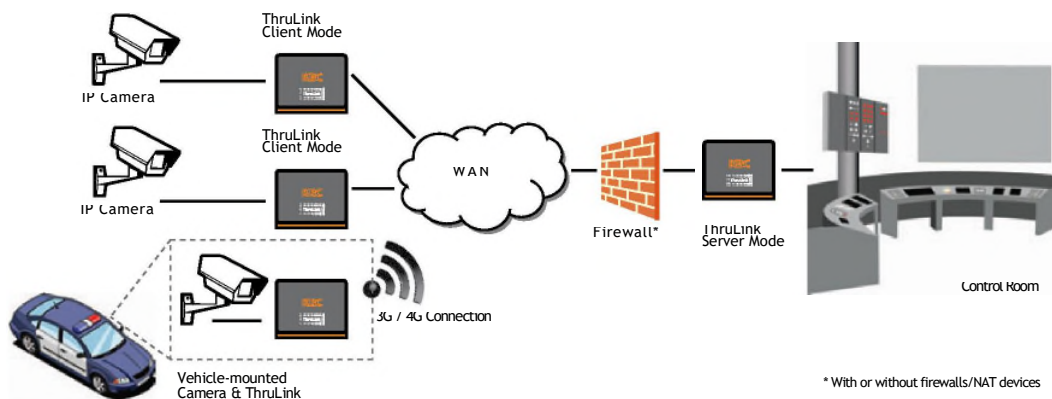
Meshed Configuration

ThruLink enables meshed networks to be established providing network redundancy and allowing direct connection without the need for central server authentication.
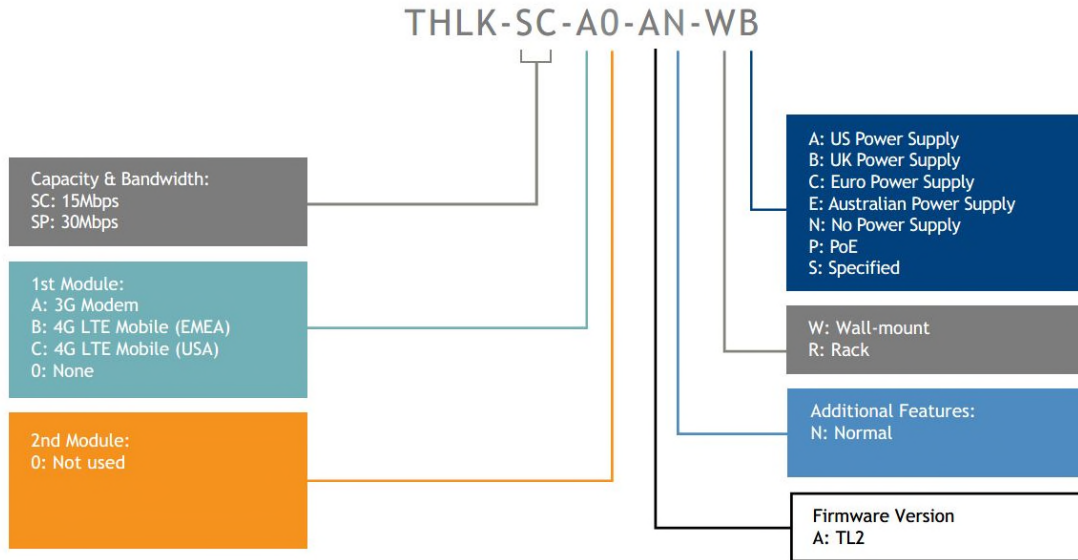

Specifications

ThruLink, Standard (SC) / Standard Plus (SC)

Throughput	Standard	15Mbps	For the following mobile network providers, please consult KBC Networks	T-Mobile, Cincinnati Bell, CTC, DAVE, Bragg, lobalive, Mobility, Nextel Mexico, Shaw, Stelera Videotron, Wind
	Standard Plus	30Mbps		
Encryption		AES: 128/192/256bit		
		Blowfish: 128/192/256bit	Antennas	lease contact KBC Networks for details
		Camellia: 128/192/256bit		
		SHA1, SHA256[1]	**Environmental**	
		RSA: 2048	Operating Temperature	Standard temp	-40 ~ +70˚C / 14 ~ 158˚F
		FIPS 140-2[2]		Extended[6]	-40 ~ +85˚C / -4 ~ 185˚F
			Operating Humidity	0 to 95% non-condensing
Management		Web GUI	Mean Time Between Failure (MTBF)	>200,000 hours
User Interface				
			Dimensions[3]	190 x 165 x 29mm / 7.5 x 6.5 x 1.125

Mobile Interface

Band	Quad-band WCDMA/HSPA/HSPA+	2100/1900/900/850MHz	**Connectors**	
	Quad-band GSM/GPRS/EDGE	1900/1800/900/850MHz	10/100/1000	2 x RJ45[4]
Max Transmitter Power			3G / 4G	SMA (male)
	WCDMA/HSPA/HSPA+	+24dBm (power class 3)	Serial	DB9
	2100/1900/900/850MHz		Power	Jack socket or PoE
	GSM/GPRS 850/900MHz	+33dBm (power class 4)		
	GSM/GPRS 1800/1900MHz	+30dBm (power class 1)		
	EDGE 850/900MHz	+27dBm (power class E2)		
	EDGE 1800/1900MHz	+26dBm (power class E2)		

Regional Frequency Bands

Band I: WCDMA 2100MHz	Africa, Asia, Europe, Middle East
Band II: WCDMA 1900MHz	North America, South America
Band III: WCDMA 1800MHz	Unassigned
Band IV: WCDMA 1700/2100MHz (AWS)	North America
Band V: WCDMA 850MHz	Asia, Australia, Brazil, Canada, Mexico, South America, USA
Band VI: WCDMA 800MHz	Japan
Band VII: WCDMA 2500MHz	
Band VIII: WCDMA 900MHz	
Band IX: WCDMA 1700MHz	Japan

4G LTE[5]

EMEA	LTE Bands (B1/B2/B3/B5/B7/B8/B20)
North America	LTE Bands (B2/B4/B5/B13/B17/B25/B26)

1. Automatically set depending on encryption type used
2. Please contact us for FIPS compliant encryption library
3. Product body dimensions. Please contact KBC Networks for product drawing and dimensions of mount
4. When mobile port is used, one of the RJ45 interfaces will be disabled
5. Please request the region requirement when purchasing
6. Maximum extended temperature for short periods of operation

Part Number Configurator

THLK-SC-A0-AN-WB

Capacity & Bandwidth:
SC: 15Mbps
SP: 30Mbps

1st Module:
A: 3G Modem
B: 4G LTE Mobile (EMEA)
C: 4G LTE Mobile (USA)
0: None

2nd Module:
0: Not used

A: US Power Supply
B: UK Power Supply
C: Euro Power Supply
E: Australian Power Supply
N: No Power Supply
P: PoE
S: Specified

W: Wall-mount
R: Rack

Additional Features:
N: Normal

Firmware Version
A: TL2