

CyphreLink

Protection for data in-transit

GLOBAL 360° POINT-TO-POINT SECURITY

Enterprises seeking greater assurance that data and encryption keys are safeguarded from attack or interception require unassailable protection from CyphreLink.

CyphreLink is a fully-managed service that provides Global 360° security protection for sensitive and proprietary information transiting any network. Operating as an over-the-top application, this powerful solution provides unassailable encryption for data in-transit, network certificates, and encryption keys by establishing a highly-secure connection between trusted end points.

CyphreLink interoperates with RigNet's global MPLS backbone to strengthen the movement of data across cost-advantaged open networks. With CyphreLink, enterprises can be ensured that the secure connection across satellite, fixed, or wireless networks can be done with greater flexibility and agility than traditional connections.

CyphreLink is easily incorporated into an enterprise's existing data protection technologies. By serving as a unifying management solution, CyphreLink offers hardened security that reduces man-in-the-middle (MITM) attacks and unauthorized eavesdropping, while expanding the abilities of an organization to leverage virtually any network efficiently and cost-effectively.

Features

- Seamless access, transmission, and retrieval of data across networks, in the cloud, and with trusted third-party connections

- End-to-end encryption tunneling maintains data integrity and ensures operational uptime
- Key orchestration via a centralized Certificate Authority to generate, manage, store, use, and replace encryption keys
- Specialized chipset with dedicated security engine to offload cryptographic operations outside of accessible host CPU and system memory

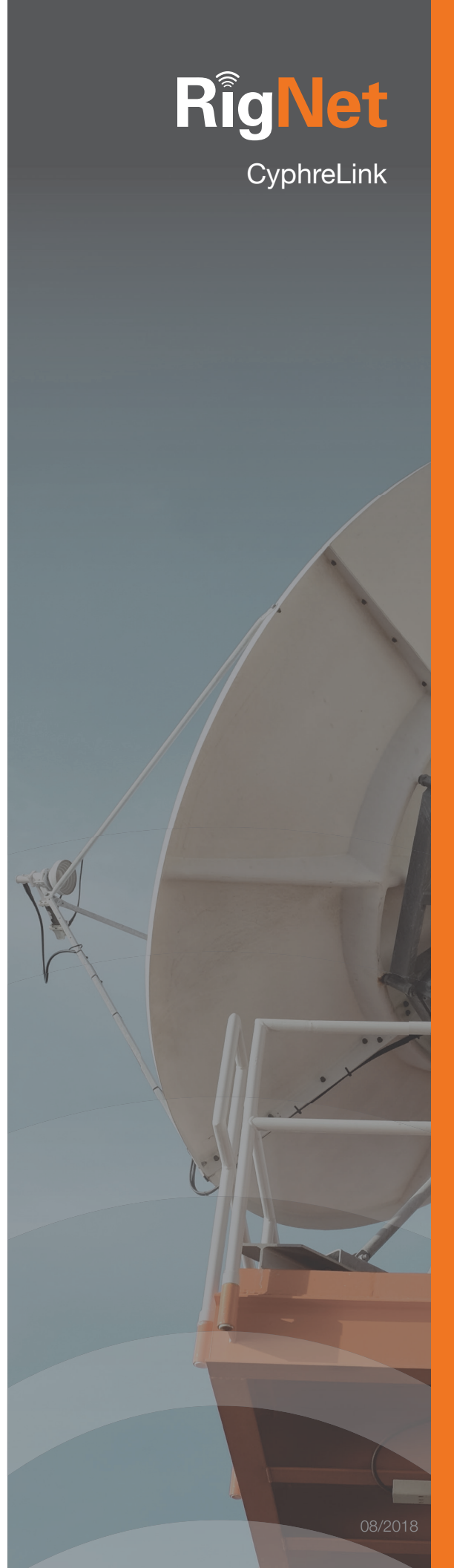
Use Case

Rig-to-Shore Communications

Challenge: Information from terrestrial and deep-sea based assets is communicated on-shore via VSAT. Currently, rig-to-shore data traffic traverses various carrier networks with different security protocols, potentially creating exploitable vulnerabilities.

Solution: CyphreLink is deployed on the rig and at final end points to encrypt and secure communications over the entire data path irrespective of network-level policies. Intra-rig network traffic is also encrypted and secure.

Benefit: All data sent across the connection is protected with encryption, achieving Global 360° data protection and providing total control of encryption keys for all data in-transit across any network.

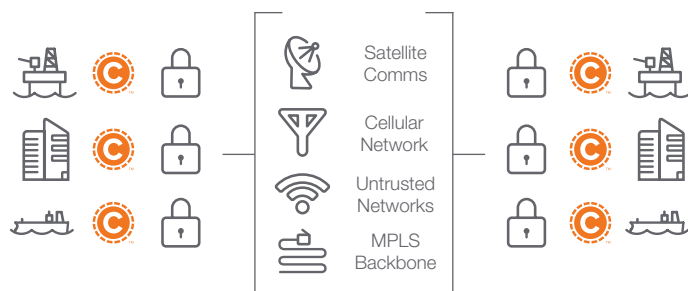


Industrial IoT

Challenge: Proprietary information gathered from internet-connected devices at remote sites is stored and forwarded via insecure satellite communications, terrestrial links, and cellular networks.

Solution: CyphreLink provides in-transit protection for industrial data and process control from operational technology systems, such as SCADA. Connections are protected from MITM attacks and unauthorized eavesdropping.

Benefit: Eliminates multiple attack vectors, gives back control of encryption keys, and protects data collected, transmitted, and stored, whether that be a private location or public cloud.



Deployment Flexibility

CyphreLink extends unassailable protection for data, keys, and certificates from any end-point and across any access network. Hardware-based encryption technology leverages a specialized chipset with a dedicated security engine to offload cryptographic operations outside of host CPU and system memory - two of the most common entry points for cyber criminals. Key management controls offer total and exclusive control of the generation, exchange, storage, use, destruction, and replacement of encryption keys.

RigNet (NASDAQ:RNET) delivers ultra-secure, intelligent technology solutions that allow the oil and gas industry to finally realize the business results of digital transformation. We empower diverse energy businesses to gain real-time insights from their remote operations and take action that drives profitable revenue growth. RigNet operates globally, with headquarters in Houston, Texas.

For more information visit our website www.rig.net/contact/contact-sales or contact us at sales@rig.net

Security Appliance Hardware Specifications

Processor	
Processor Type	NXP QorIQ P4080 8 PowerPC core 1.5 GHz
Memory	
Architecture	PC-1333 ECCDDR3 with Parity
Configured RAM	32 GB
Network	
Networking	Freescale DPAA
Ethernet Ports	2 x 10 G Base-T and 2 x 1 G Base-T
Internal Storage	
Hard Drive	Avago LSI MegaRAID 6GiB SATA/SAS RAID4x 2.5inch HDD or SSD
USB Flash Drive	Up to 3 USB 2.0 connections
Panel Connectors	
Network adapter 1 GB	2 RJ-45 for integrated 1-GB network adapters
Network adapter 10 GB	2 RJ-45 for integrated 10-GB network adapters
USB (front)	2 USB 2.0 (Supports video over USB)
USB (back)	1 USB 2.0
Video	HDMI
Power	100-240V AC 50/60 Hz Proprietary BT1 Server Power Supply (BT1 Server -PS)
Power Supply	
Wattage	203 W @ Maximum
Voltage	100-240V AC 50/60 Hz
Maximum Inrush Current	Under typical line conditions and over the entire system ambient operating range, the inrush current may reach 25 A for 10 ms or less
System Battery	BR2032 3.0 V DC Lithium Coin Cell
Physical Dimensions	
Height	4.2 cm (1.75 in)
Width	21 .0 cm (8.25 in)
Depth	35.6 cm (14 in)
Weight	4.04 kg (8.9 lbs.)
Form Factor	1U
Weight	8.9 lbs. (4.04 kg)
Environmental	
Operating Temperature	10° to 45° C
Operating Altitude	-16 to 2,000 m (-50 to 6,561.68 ft.)
Storage Altitude	-16 to 10,600 m (-50 to 35,000 ft.)
Fans	Long-life, High-efficiency Fans with Variable Auto-speed Control
Ultra-Low Heat Output	< 410 BTU/hr (Per Server)



Enabling Intelligence. Delivering Results.