Remote**Link** 80-Cellular™

The RemoteLink 80-Cellular is a hardened plug-and-play device that protects endpoint devices and communications links as part of a flexible network security solution that features mandatory cryptographically-enforced public key authentication for all connections. This results in authenticated data protection and privacy for communications over untrustable networks. The self-contained security solution is packaged with its own crypto-system and management plane and does not depend on external system resources such as third party certificate management solutions.

Product features include token-based provisioning, operation over an extended temperature range, onboard TPM 2.0 hardware and DIN rail mounting. These devices can be deployed to protect Programmable Logic Controllers (PLC), Operator Stations, Remote Terminal Units (RTU), Supervisory control and data acquisition (SCADA)/Radio communications, VoIP phones, videoconferencing systems, and other latency-sensitive applications.
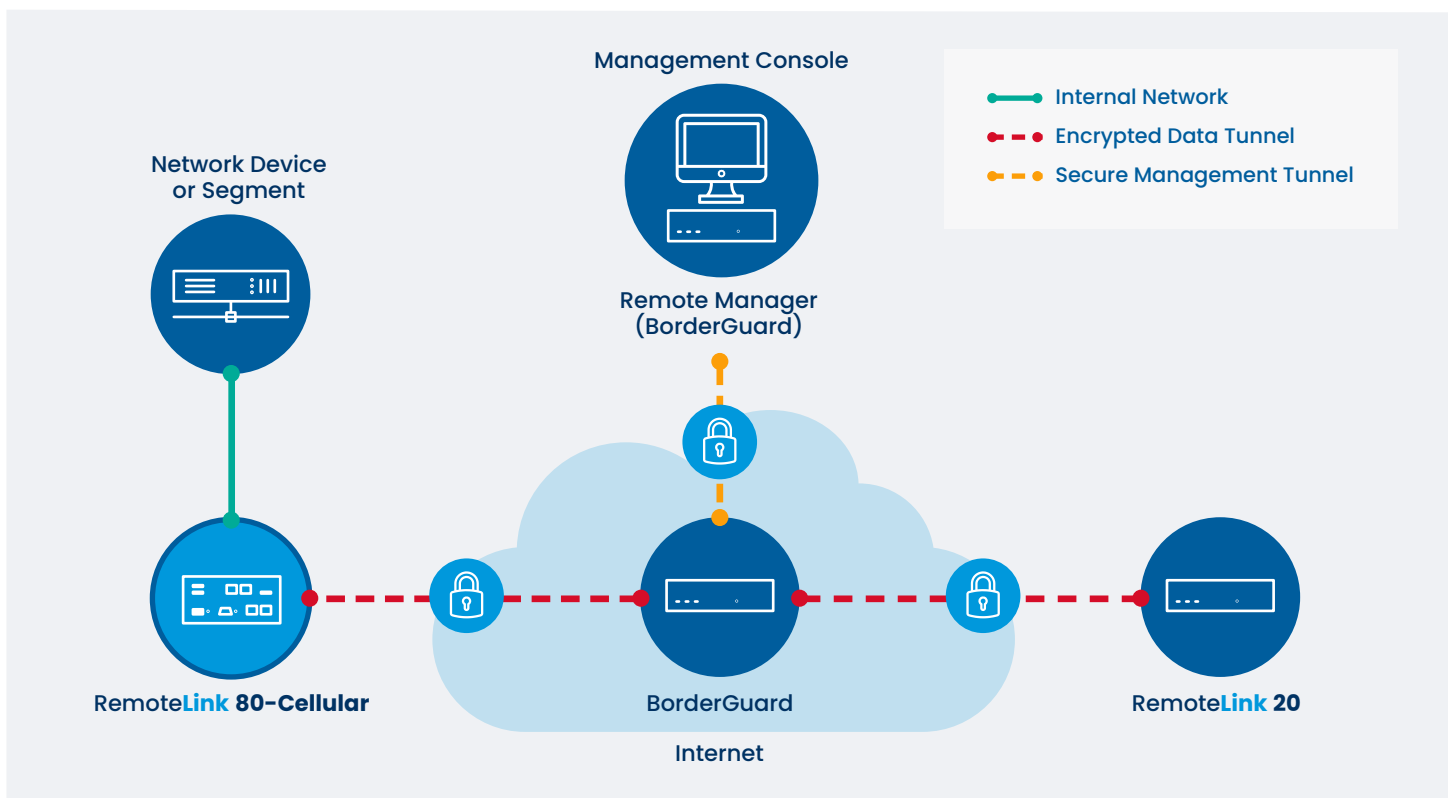
Features

- Defines and protects ISA/IEC 62443 zones & conduits
- Cellular 4G-LTE modem
- Simple & effective redundancy and scalability
- Transparent to end users & services
- Proprietary SE-IKE
- Built in RSA PKI
- Hardened platform with DIN rail mounts

Benefits

- No software to install
- Obfuscates network from external view, making it impossible to target
- Fault tolerant solution
- Set-and-forget deployment
- Compatible with any protocol that can travel over an Ethernet cable
- Deployment requires little to no changes to existing systems, suitable for unskilled deployment environments

How It Works

Security Policies, defined using the Management System, are delivered to each security device. Once the BorderGuard and RemoteLink have completed mandatory mutual authentication, secure tunnels are established based on the policies. The encrypted tunnels allow the network segment behind a BorderGuard to communicate with the network segment behind the RemoteLink. Devices or segments internal to the protected network cannot reach out to the internet and internet devices cannot reach in.

Management Console

Internal Network
Encrypted Data Tunnel
Secure Management Tunnel

Network Device or Segment

Remote Manager (BorderGuard)

RemoteLink 80-Cellular

BorderGuard

RemoteLink 20

Internet

RemoteLink 80-Cellular™
SPECIFICATIONS

Physical Dimensions
- **Height:** 2.1"/53.5 mm
- **Width:** 3.9"/100 mm
- **Depth:** 3.6"/92 mm
- **Weight:** 0.8lbs/0.35kg

Interfaces
- 4 - GbE ports
- 1- 4G LTE
- 2 - 2.0 USB ports

VLAN Support
- IEEE 802.1Q
- IEEE 802.1ad

System
- Intel® Celeron®, 2 cores
- Onboard soldered TPM 2.0

Public Key Cryptography
- RSA and Diffie-Hellman
- 1024-, 2048-, 4096- bit RSA keys

Data Integrity
- HMAC-SHA-256

Encryption Algorithms
- AES-CBC-128
- AES-CBC-256
- AES-GCM-128
- AES-GCM-256

Compliance
- CE
- FCC Class A
- IEC-60068 (Shock/Vibration)
- IEC-60529 (IP30)

Power Requirements
- Voltage 12-30 VDC
- TDP 9.5 W

Operating Environment
- **Temperature:** 32° F to 122° F (-0° C to 50° C)
- **Humidity:** 5% to 95% (non-condensing)

Maximum AES Throughput
- 350 Mbps

Frequency Bands
- LTE FDD: B1, B3, B5, B7, B8, B20, B28, B32
- LTE TDD: B38, B40, B41
- WCDMA: B1, B3, B5, B8

About Us

Blue Ridge Networks is a proven and trusted provider of cybersecurity breachprevention solutions. Our mission is to provide proactive protection of critical infrastructure that eliminates the adverse impacts associated with reactive responses to compromises.

Our unique CyberCloak capabilities secure critical assets and operations in zero-trust IT/OT network architectures. Regulated, Commercial, and Industrial organizations have trusted Blue Ridge Networks for over 20 years to prevent exploits and receive continuous returns on their investments while achieving uninterrupted operational efficiency.

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