Technolution
Prime

PrimeLink 3015+

Reliable NL Restricted line encryptors with remote management



Redefining **solutions**

PrimeLink 3015+

Secure connections across open networks



Your organization exchanges sensitive and classified information between different locations, data centers and users. These connections must be reliably secured without adding unnecessary complexity to your network. With the PrimeLink 3015+, you can create, manage and monitor secure connections across open networks, including the internet.

The PrimeLink 3015+ has been evaluated for NLD RESTRICTED in the Netherlands and for EU RESTRICTED and NATO RESTRICTED internationally. This quantum-resilient network encryptor operates on OSI Layers 2 and 3 and is suited for a wide range of network configurations, from mesh networks with multiple locations to multi-client environments with multiple data centers. Thanks to the available software clients, the PrimeLink 3015+ can also be used to establish secure connections with employees working from home.

The FPGA-based architecture of the PrimeLink 3015+ allows new and enhanced functionality to be added through firmware updates. This enables the product series to adapt to your changing security requirements.



Different versions, the same high-quality specifications

The PrimeLink 3015+ is available in two versions. Both offer comparable technical specifications and performance, as well as the same high level of security functionality. The difference lies in their form factor and dimensions. This allows you to choose the PrimeLink 3015+ that best suits your environment.



PrimeLink 3015+ 19-inch version

The 19-inch version of the PrimeLink 3015+ is designed for installation in a standard 19-inch rack. Its 1U housing features passive cooling and is particularly suited for central network and data center environments. The 19-inch PrimeLink 3015+ has a redundant power supply, making it an excellent choice for applications requiring high availability.



PrimeLink 3015+ Desktop version

Despite its compact housing, the desktop version of the PrimeLink 3015+ offers the same technology and performance. It is suited for locations where a 19-inch rack is unavailable or space is limited. Its robust design features passive cooling and contains no moving parts. Thanks to its compact size, the unit is easy to transport and deploy on site.



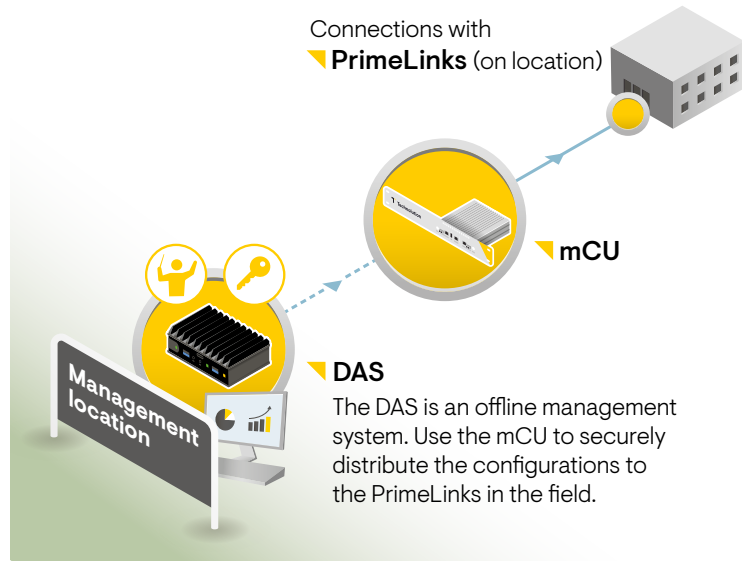
Dual Rack Mounted Two desktop units in 1U

The Dual Rack Mounted (DUR) configuration allows you to install two PrimeLink 3015+ desktop units in a single 1U space in a 19-inch rack. Particularly in large networks with many secure connections, the DUR offers significant space savings.

Centralized and controlled management

The PrimeLink 3015+ ecosystem consists of three elements:

- **Crypto Units (CU)**
  The PrimeLink 3015+ units that establish secure connections for network traffic.
- **Management Crypto Unit (mCU)**
  The Management Crypto Unit ensures a secure management connection between the DAS and the Crypto Units in the network.
- **Domain Administration Station (DAS)**
  The offline system for configuration, management and monitoring. The DAS generates and stores keys, certificates and configurations. Online monitoring is available with an additional license.



A PrimeLink 3015+ network consists of at least two CUs and a DAS. Online management and monitoring also require an mCU. Cryptographic management remains separate from the operational network, ensuring that you retain control over your secure connections.

Security that fits your processes
The PrimeLink 3015+ has been designed according to our philosophy of 'separation of concerns'. It focuses on one primary task: reliably encrypting and decrypting network traffic. The PrimeLink 3015+ performs as few of the surrounding network equipment's tasks as possible, allowing it to integrate seamlessly into a wide range of network architectures.

PrimeLink 3015+ License Structure

Basic

- Operation on Layer 2 (Ethernet) and Layer 3 (IP)
- Throughput of 2 x 1 Gb/s (ingress/egress)
- Offline monitoring
- Quantum-resilient security
- Support for most common network configurations
- Evaluated for NLD RESTRICTED, EU RESTRICTED and NATO RESTRICTED

License Based

- Throughput of 2 x 10 Gb/s (ingress/egress)
- Online monitoring
- Remote management and configuration

Other

- Warranty extension from 1 to 5 years
- Training

Technical specifications

	PrimeLink 3015+
Security	
Certification	NLD RESTRICTED EU RESTRICTED (V1.0.4.0) NATO RESTRICTED
Hardware protection	Tamper evident and tamper responsive
Tempest	NATO SDIP-27/1 Level B
VPN	
Protocol	OpenVPN – UDP
Encryption	AES-256-GCM (Before V2.0.0.0: AES-256-CBC/HMAC-SHA-256)
Number of tunnels	128
Tunnel routing	Longest Prefix Matching (L3) / VLAN-ID (L2) Control channel protection TLS-Crypt V2 authentication & encryption (up to V 1.0.4.0. TLS-authentication)
Operation behind NAT	Yes
Mode	L2 (tap), L3 (tun)
Performance	
Maximum throughput	Electrical > 950 Mbps Optical > 950 Mbps or > 9.5 Gbps*
ICMP	ICMPv4 too big (automatic MTU tuning)
MTU size	Jumbo frames: 12.000 bytes
Latency Typical	< 50 µs
Management	
API	Open API to connect to own management interface
Network diagnostics	VPN keep alive, Tunnel status, peer device detection
Key management	Domain Administration System (DAS)
Monitoring*	Statistics via SNMP or REST API, remote logging (via rsyslog)
Remote management*	Via open REST API (i.e. update application, reboot)
Time synchronization*	NTP (for log time stamps)
Interfaces	
Trusted network	1000BASE-T, SFP+ cage (1G, 10G)
Untrusted network	1000BASE-T, SFP+ cage (1G, 10G)
Management*	100BASE-T
CIK	USB mass storage device
Hardware	
Regularly compliance	RoHS, CE
Power	~22 W (with 10G data pipeline enabled)
Power input	90 – 264 V-AC, 0,5 A, 47-63 Hz (Redundant power)
Clock retention	>5 year unpowered @ 0°C - 40°C
Cooling	Passive
Weight	1.8 kg
Dimensions	Desktop 165 x 270 x 38 mm (WxDxH)1 19": 1 U, 270 mm deep Dual Rack Mounted: 1 U, 450 mm to 800 mm deep
Temperatures Operating	0°C - 35°C ambient
Storage	-30°C - 85°C

** Depending on the chosen license*

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About Technolution Prime

Technolution Prime is the leader in the Netherlands in preventive High Assurance solutions for classified data. We develop and assemble our products and solutions entirely in-house. We stand for high-quality cyber-security where it is needed most.

Technolution B.V.
Burgemeester Jamessingel 1
2803 WV Gouda
The Netherlands

+31 (0)182 59 40 00
prime@technolution.com
technolution.com/prime