

# CryptoGuard VPN family 6 Series

CryptoGuard VPN family 2016

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Product Features	CryptoGuard VPN 600	CryptoGuard VPN 6000	CryptoGuard VPN 6500	CryptoGuard VPN 6800 / 6900	CompuCrypt XL
Photos					
Power supply (Power supply input)	100 – 240 VAC 50 – 60 Hz External power	90 – 264 VAC 57 - 63 Hz Dual internal power	100 – 240 VAC 50 – 60 Hz Dual internal power	100 – 240 VAC 50 – 60 Hz Dual internal power	100 – 240 VAC 50 – 60 Hz Dual internal power
(Device input)	10 – 24 VDC				
Power consumption	Max. 30 W	Max. 40 W	Max. 45 W	Max. 80 W	Max. 135 W
Interfaces	2x Ethernet (RJ45) 10/100/1000 Mbps Service port RS-232	2x Ethernet (RJ45) 10/100/1000 Mbps Service port RS-232	2x Ethernet (RJ45) 10/100/1000 Mbps Service port RS-232	2x Ethernet (RJ45) 10/100/1000 Mbps Service port RS-232	2x Ethernet (SFP+) 10Gbps Service port RS-232
Optional	1x Ethernet (RJ45) RS-232 (RJ45)	1x Ethernet (RJ45) RS-232 (RJ45)			
Dimensions (in mm)	H 41 W 295 D 220	H 44 W 441 D 440	H 44 W 440 D 310	H 88 W 440 D 420	H 88 W 440 D 420
Weight (in kg)	3 kg	8 kg	6 kg	11 kg	11 kg
External Smartcard and compact flash	✓	✓	✓	✓	✓
Operating temperature	-20°C to +55°C	-20°C to +55°C	+0°C to +45°C	+0°C to +45°C	+0°C to +45°C
Non-operating	-20°C to +70°C	-20°C to +70°C	-20°C to +75°C	-20°C to +75°C	-20°C to +75°C

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Relative humidity, non-condensing	10% to 85%	10% to 85%	20% to 85%	20% to 85%	20% to 85%
Non-operating	10% to 85%	10% to 85%	15% to 90%	15% to 90%	15% to 90%
MTBF	10 years	10 years	5 years	5 years	5 years
Operating System	Hardened Free BSD, COS (Compumatica Operating System)	Hardened Free BSD, COS (Compumatica Operating System)	Hardened Free BSD, COS (Compumatica Operating System)	Hardened Free BSD, COS (Compumatica Operating System)	Hardened Linux, COS (Compumatica Operating System)
Management	Stand-alone central SMS, Security Management Station	Stand-alone central SMS, Security Management Station	Stand-alone central SMS, Security Management Station	Stand-alone central SMS, Security Management Station	Stand-alone central SMS, Security Management Station
Airflow	No rotating parts	No rotating parts	Fan(s)	Fan(s)	Fan(s)
Shockproof	DIN EN 60068-2-6, DIN EN 60069-2-27	DIN EN 60068-2-6, DIN EN 60069-2-27			
Encryption on Layer	2,3,4	2,3,4	2,3,4	2,3,4	2,3,4
Latency	<1 ms	<1 ms	<1 ms	<1 ms	<1 ms
Support of VLAN's	✓	✓	✓	✓	✓
Support of Jumbo Frames	✓	✓	✓	✓	
Redundancy	Based on OSPF or STP	Based on OSPF or STP	Based on OSPF or STP	Based on OSPF or STP	Based on OSPF or STP
Certification	NL Departementaal Vertrouwelijk (DV)	NL Departementaal Vertrouwelijk (DV)	NL Departementaal Vertrouwelijk (DV)	NL Departementaal Vertrouwelijk (DV)	

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## Cryptographic algorithms:

Symmetrical: AES-256, AES-192, AES-128, 3DES

Asymmetrical: RSA (1024 bit, 2048 bit, 4096 bit)  
ECDSA-256, ECDSA-384, ECDSA-521

Hash, HMAC, MAC: HMAC-SHA-1-96  
HMAC-SHA-256-128  
HMAC-SHA-384-192  
HMAC-SHA-512-256

Protocols: IPv4, IPv6, IPsec (AH/ESP/IPComp), IKEv2,  
LDAP, OCSP, CRLs

## Administration:

- Central Security Management (Security Management Station)
- GUI Based
- Rule and key management to build VPNs
- Management and monitoring of CG VPN systems
- Integrated Public Key Infrastructure (PKI)
- User and role management
- Management of log information and security alarms
- SNMP interface

## Modes of operation:

**CG VPN Mode:** Transparency of the CryptoGuard VPN devices towards the network (bridging firewall)  
Payload encryption, no data expansion,  
No tunnel mode  
Encryption on different protocol levels  
(Mac/IPv4/IPv6/UDP/TCP/...)

**IPsec mode:** Tunnel mode  
Authentication header  
IP encapsulating Security Payload  
IP Compression  
NAT-Traversal (NAT-T)  
Key Management IKEv2 (authentication with P3Ks and digital signatures)  
Certificate status validation with OCSP and CRLs

## Scalability and performance (aggregated):

### In CryptoGuard VPN Mode (Max. Mbps)

RFC 2544:		IMIX:	
AES256:		AES 256:	
CG VPN 600	128 Mbps	CG VPN 600	92 Mbps
CG VPN 6000	128 Mbps	CG VPN 6000	92 Mbps
CG VPN 6500	509 Mbps	CG VPN 6500	394 Mbps
CG VPN 6800	963 Mbps	CG VPN 6800	416 Mbps
CG VPN 6900	1957 Mbps	CG VPN 6900	1245 Mbps
CompuCrypt XL	9191 Mbps	CompuCrypt XL	3313 Mbps

Number of connections in CryptoGuard VPN Mode: Unlimited

Approvals: NATO Restricted – EU Restricted – The Netherlands Departementaal Vertrouwelijk (NL Restricted)

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