

Physical and environmental specifications

	CE 	SE 	OE 	PE 
Chassis	1U 19-inch aluminium		Aluminium	
Dimensions (W × H × D)	483 × 44 × 262 mm		107 × 22 × 168 mm	66 × 18 × 108 mm
Weight	3.6 kg	3.0 kg	0.5 kg	0.2 kg
Form factor	19-inch rack mount		Desktop	Mobile
Fans	4 hot swappable		None	
Power supply unit	2 internal, hot swappable		1 external or PoE	1 external or USB bus
Noise	26 dBA at maximum load		Silent	Silent

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USB port	USB 2.0 Type A			USB 2.0 micro Type B
WAN (Ciphertext) interface **	10 Gbit SFP+	1 Gbit SFP	10/100/1000 Base-T	10/100/1000 Base-T
LAN (Plaintext) interface **	10 Gbit SFP+	1 Gbit SFP	4 × 10/100/1000 Base-T	10/100/1000 Base-T
Optional WAN & LAN interface*	ST, SC, LC, FC, MM, SM	ST, SC, LC, FC, MM, SM	//	//

* Xiphra encryptors can be delivered upon customer's request with any combination of optical interfaces. The choice may affect product dimensions.

** Xiphra encryptors support SFP and SFP+ modules of various manufacturers.

Operating environment

	CE 	SE 	OE 	PE 
Operating Temperature	0 - 55 °C 32 to 131 °F	0 - 55 °C 32 to 131 °F	0 - 50 °C 32 to 122 °F	0 - 40 °C 32 to 104 °F
Storage Temperature	- 20 to + 60 °C // - 4 to + 140 °F Storage temperatures above 60 °C (140 °F) may cause permanent damage to the device.			
Humidity	0 - 95 %			
Maximum operating altitude	3000 m 10,000 ft			
Maximum storage altitude	12,000 m 39,000 ft			

Electrical Specifications

	CE 	SE 	OE 	PE 
Rated nominal input operating range	100 – 240 ± 10 % VAC 47 – 63 Hz		12 ± 10 % VDC / 48 ± 10 % VDC	5 ± 10 % VDC
Rated nominal input current	0.4 A	0.4 A	0.9 A	1.0 A
Power Consumption	24 W	12 W	6 W	2.5 / 4.5 W
Maximum Peak Power	40 W	40 W	6 W	4.5 W
Device Class	Class I		Class III	
Surge Protection	1 A 250 V Fuse		N/A	
MTBF	> 150,000 hours			

Bandwidth

	CE 	SE 	OE 	PE 
IPsec	20 Gbit/s	2 Gbit/s	2 Gbit/s	2 Gbit/s
L2 over IPsec	(10 Gbit/s full duplex)	(1 Gbit/s full duplex)	(1 Gbit/s full duplex)	(1 Gbit/s full duplex)

All throughput measured on the ciphertext interface. The throughput is subject to acquired licenses.

Standards compliance

	CE 	SE 	OE 	PE 
Compliance	Products comply with CE markings as per Low Voltage Directive (LVD) directives 2006/95/EC (until 19 April 2016) and 2014/35/EU (from 20 April 2016). Products comply with CE markings as per Electromagnetic Compatibility Directive (EMC) directives 2004/108/EC (until 19 April 2016) and 2014/30/EU (from 20 April 2016). In compliance with Restriction on the use of Hazardous Substances (RoHS) directive 2002/95/EC.			
Safety	EN 60950-1: 2006 + A1:2010 + A2:2013 + A11:2009 + A12:2011 IEC 60950-1: 2005 (Second Edition) + A1:2009 + A2:2013			
EM emissions	EN 55032:2012 ••• EN 55024:2010 ••• EN 61000-3-2:2006 + A1:2009 + A2:2009 ••• EN 61000-3-3:2013 ••• IEC 61000-3-2:200a5 (Third Edition) + A1:2008 + A2:2009 ••• IEC 61000-3-3:2013 (Third Edition) ••• IEC CISPR 22:2008 (Sixth Edition) ••• IEC CISPR 24:2010 (Second Edition)			
EM immunity	EN 55032:2012 EN 55024:2010 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2013			
Labels	CE, RoHS			

CE - Core Encryptor // **SE** - Site Encryptor // **OE** - Office Encryptor // **PE** - Personal Encryptor

Technical specifications are subject to change without prior notice.