

IDQ CN6000 & CN4000 Series Encryptors At A Glance

| MODEL PROTOCOL | CN8000 | | | CN6100 | CN6040 | | CN6010 | CN4010 | |
|----------------------------------------------------------------|--------------------------|------------------------------------|------------------------------------|-----------------|---------------|-----------------|------------------|------------------|--|
| | FIBRE CHANNEL | ETHERNET | | ETHERNET | FIBRE CHANNEL | ETHERNET | ETHERNET | ETHERNET | |
| Ethernet point-point, hub & spoke, mesh full-duplex encryption | N/A | ✓ | | | N/A | ✓ | | | |
| Fibre Channel point-point encryption | ✓ (under development) | N/A | | | ✓ | N/A | | | |
| Min/Max Port Speed | 1/2/4/8 Gbps | 100Mbps - 1Gbps (license based) | 1 Gbps - 10Gbps (license based) | 1 Gbps - 10Gbps | 1-4 Gbps | 100Mbps - 1Gbps | 100M bps - 1Gbps | 100M bps - 1Gbps | |
| Maximum Chassis Throughput | 100 Gbps | 100 Gbps | 100 Gbps | 10 Gbps | 4 Gbps | 1 Gbps | 1 Gbps | 1 Gbps | |
| Support for Jumbo frames | N/A | ✓ | | | N/A | ✓ | | | |
| Protocol and application transparent | | | | | | ✓ | | | |
| Encrypts Unicast, Multicast and Broadcast traffic | N/A | ✓ | | | N/A | ✓ | | | |
| Automatic network discovery and connection establishment | | | | | | ✓ | | | |
| Network interfaces | SFP | SFP | SFP+ | XFP | SFP | RJ45, SFP | RJ45, SFP | RJ45 | |

SECURITY:

| | | | | | | | | | |
|------------------------------------------------------------------|-----|---|--|--|-----|---|--|--|--|
| Tamper resistant and evident enclosure | | | | | | ✓ | | | |
| Anti-probing barriers | | | | | | ✓ | | | |
| Flexible encryption policy engine | | | | | | ✓ | | | |
| Robust AES encryption algorithm | | | | | | ✓ | | | |
| Per packet confidentiality and integrity with AES-GCM encryption | N/A | ✓ | | | N/A | ✓ | | | |
| Automatic key management | | | | | | ✓ | | | |

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| ENCRYPTION AND POLICY: | | | | | | | | |
| AES 128 or 256 bit keys | 256 | 128/256 | 128/256 | 128/256 | 256 | 128/256 | 128/256 | 128/256 |
| IDQ Quantum Random Generator | ✓ | ✓ | ✓ | N/A | | | ✓ | N/A |
| Support for Quantum Key Distribution | ✓ | | | | N/A | | | |
| Policy based on MAC address or VLAN ID | N/A | ✓ | | | N/A | ✓ | | |
| Encryption modes | CFB | CFB, CTR, GCM | CTR, GCM | CTR, GCM | CFB | CFB, CTR, GCM | CFB, CTR, GCM | CFB, CTR, GCM |
| Self healing key management in the event of network outages | | | | | ✓ | | | |
| ACCREDITATION: | | | | | | | | |
| Common Criteria certified | Pending | | | In progress | ✓ | | In progress | In progress |
| FIPS certified | Pending | | | In progress | ✓ | | | |
| PERFORMANCE: | | | | | | | | |
| Low overhead full duplex line rate encryption | | | | | ✓ | | | |
| Ultra low latency for high performance | | | | | ✓ | | | |
| Latency (microseconds per encryptor) | <1 | <8 | <8 | <8 | <1 | <8 | <8 | <8 |
| FPGA based cut-through architecture | | | | | ✓ | | | |

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| MANAGEMENT: | | | | | | | |
| Centralised configuration and management using CM7 and SNMPv3 | | | | ✓ | | | |
| SNMPv1/2 monitoring (read-only) | | | | ✓ | | | |
| Support for external (X.509v3) CAs | | | | ✓ | | | |
| Remote management using SNMPv3 (inband and out-of-band) | | | | ✓ | | | |
| NTP (time server) support | | | | ✓ | | | |
| CRL and OCSP(certificate) server support | | | | ✓ | | | |
| MAINTAINABILITY/INTEROPERABILITY: | | | | | | | |
| In-field firmware upgrades | | | | ✓ | | | |
| Dual swappable AC and/or DC power supplies | | | ✓ | | | | N/A |
| User replaceable fans | | | ✓ | | | | N/A |
| Fully interoperable with related Centauris models | | | | ✓ | | | |

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| PHYSICAL AND INSTALLATION: | | | | | | | |
| Form factor | 4U, rack mount | | 1U, rack mount | | | bench, rack kit | |
| Physical dimensions (W, D, H) mm | 436,460,175 (4RU) | | 436,328,43 | | | 180,126,32 | |
| Weight | Chassis 20kg Encryptor Cards 200g | | 8.5Kg | | | 500g | |
| Front panel access for all interfaces | ✓ | | | | | | |
| Power source | mains | | | | | AC plug pack | |
| Power voltage | 100-240 VAC, 50-60 Hz | | | | | 9-15 VDC | |
| Power consumption | 300W fully populated | | 38W | | | 6W | |
| DC power supply (optional) | N/A | | 40.5-60 VDC | | | N/A | |
| Chassis airflow | Front to rear | | Front to rear | | | Convection | |
| ENVIRONMENT, REGULATORY AND SAFETY: | | | | | | | |
| RoHS compliant | ✓ | | | | | | |
| Maximum operating temperature | 40°C | | 50°C | | | | |
| | 0-80% RH at 40°C | | | | | | |
| Safety standards | In progress | | EN 60950-1 (CE) | | | | |
| | | | IEC 60950-1 | IEC 60950-1 | IEC 60950-2 | IEC 60950-3 | IEC 60950-4 |
| UL listed | In progress | | ✓ | | | | |
| EMC (Emission and immunity) | In progress | | EN55022 (CE) | | | | |
| | | | EN 61000-3-2 (CE) | | | | |
| | | | EN 61000-3-3 (CE) | | | | |
| | | | EN 55024 (CE) | | | | |

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