

HIGH PERFORMANCE SECURITY FOR DATA IN MOTION

- Ensures up to 98% network efficiency via unique throughput optimization techniques
- Mitigates data analysis and side channel attacks through traffic flow security
- Scales easily from simple point-to-point to many hundreds of meshed endpoints
- Supports both Ethernet and IP networks



⟨Thales eSecurity⟩

DATACRYPTOR® 5000 SERIES

Data in Motion Security Solutions



DATACRYPTOR 5000 SERIES

Feature Overview

The Datacryptor 5000 Series is a family of high-speed data in motion security platforms that deliver high performance encryption at near zero latency.

Using advanced connectivity features, the Datacryptor secures data through Ethernet and IPv4/IPv6 Wide Area Networks. Industry-unique throughput optimization techniques ensure up to 98% network efficiency over Metro Carrier Ethernet, IP, cellular, and SATCOM networks.

While other solutions merely encrypt data, Datacryptors provide a complete security solution that scales from simple point-to-point to many hundreds of endpoints

PERFORMANCE

- Multi-tenant group key encryption (maximum 1000 peers)
- Real-time encryption of the Ethernet payload (IEEE 802.3)
- Encryption independent of packet size and packet content
- Key changes without interruption of traffic
- Latency per device
 - **100 Mbps:** ≤ 40 µsec
 - **1 Gbps:** ≤ 9 µsec
 - **10 Gbps:** ≤ 4 µsec

KEY MANAGEMENT

- Ad-hoc device authentication
- Tamper-resistant key storage
- Built-in key server for the distribution of group keys
- Automatic time-triggered change of master keys and group keys

NETWORK

- Comparable to E-Line, E-Tree, E-Lan, VPLS, VPWS and other Ethernet services
- Support for Jumbo Frames
- Transparent to VLAN (including Q-in-O), QoS, MPLS, Fibre Channel over Ethernet (FCoE)

LINE INTERFACES

- **D5100:** 100Base-T TP RJ45 Full Duplex
- **D5200:** 100/1000Base-T TP RJ45 Full Duplex
- **D5300:** SFP modules for RJ45 and 1Gbps Fiber; SFP+ modules for 10Gbps Fiber

SAFETY AND ENVIRONMENTAL STANDARDS COMPLIANCE

- CE, FCC, RCM, RoHS

*Security certifications are performed only against select firmware versions.

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CRYPTO TECHNOLOGY

- AES-GCM 256-bit encryption
- Integrity and replay protection with Galois Counter Mode (GCM)
- Key generation with hardware random source
- Key exchange with Diffie-Hellman ECC algorithm (DH-ECKAS)
- Designed to meet FIPS 140-2 L3 and Common Criteria*

SYSTEM MANAGEMENT

- Configuration via serial console (RS-232/V.24) or Secure Shell via out-of-band Ethernet Management Port (RJ-45 10/100BT)
- Integrated monitoring of network status and operation
- Audit and event logging with syslog support
- Remote monitoring via SNMP (V2c/V3 authpriv)
- Link monitoring via CryptoMon software

HARDWARE

- **Datacryptor 5100** – up to 100Mbps compact design
 - Wall-mountable and 19" rack-mountable with optional rail and shelf kit accessories
 - H: 1.75"; W: 8.27"; D: 8.66"
 - Weight: 5.8 lbs
 - Chassis: no moving parts
 - Power Supply: 12-30V DC, 90-240V AC, 7W
 - Operating temperature 1°C to 50°C
- **Datacryptor 5200** – from 100 Mbps up to 1Gbps via RJ45 copper interfaces
 - 19" rack-mountable, 1U
 - H: 1.75"; W: 17"; D: 9"
 - Weight: 8.8 lbs
 - Redundant power supply: 10-240V AC 50-60Hz, 11W
 - Operating temperature 1°C to 40°C
- **Datacryptor 5300** – from 1Gbps up to 10 Gbps via optical interfaces
 - 19" rack-mountable, 1U
 - H: 1.75"; W: 17"; D: 12.6"
 - Weight: 15.5 lbs
 - Redundant, hot-swappable PSU: 110-240V AC 50-60hz or -48V DC, 115W
 - Operating temperature 1°C to 40°C
- Chassis: Tamper-resistant design
- Relatively humidity: 10% - 85%, non-condensing

LEARN MORE

Visit us at www.thalesecurity.com to learn how our advanced data security solutions and services deliver trust wherever information is created, shared or stored.