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
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

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: 17”; D: 9”
  - 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.thalesesecurity.com to learn how our advanced data security solutions and services deliver trust wherever information is created, shared or stored.

*Security certifications are performed only against select firmware versions.

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