

CRYPTOR 300

The Cryptor 300 can be used either in Layer-2 or in Layer-3 mode. In Layer-3 mode the Cryptor 300 encapsulates the original IP packet and adds a new IP header to the packet. The original IP header information is hidden. This mode provides the highest security for connections to remote locations and for roaming users. In Layer-2 mode the Cryptor 300 works as a bump-in-the-wire (BITW) concept and can be easily deployed into existing networks. Only the payload is encrypted and the original IP header remains unchanged.

Key Benefits

- User Definable Algorithm (CDA)
- Concurrent operation of 5000 subnets
- Throughput of 150 Mbps full duplex
- Packet latency < 12 μ sec
- Real time encryption without tunnel setup time



Technology Made in Singapore



TECHNICAL SPECIFICATIONS

Cryptographic

- ◆ Common Criteria EAL 4 comply
- ◆ AES 256 as default algorithm
- ◆ Supports Non-AES, Customer Definable Algorithm (CDA)
- ◆ Algorithm Generator based on algorithmic procedure
- ◆ Algorithm Generator based on evolution algorithm
- ◆ Encryption / Decryption and session key generation implemented in high speed Field Programmable Gate Array (FPGA) chips
- ◆ Key generation by hardware at GlobalAdmin Management Station
- ◆ Field upgradable to double encryption with 2 different algorithms and 2 different keys
- ◆ Anti-Tampering Device (ATD) to protect the hardware

Operational Features

- ◆ Control, update and monitoring via encrypted protocol using Multi Algorithm Technology
- ◆ Fragments and defragments encrypted packets in networks with short MTU
- ◆ DHCP proxy with encrypted tunnelling for client computers
- ◆ Encrypted Radius support for client computers
- ◆ Encrypted tunnel for client booting from boot server
- ◆ QoS for real time (voice & video) over satellite
- ◆ Differentiated Service QoS support
- ◆ Dynamic and static ARP cache
- ◆ Port Forwarding and Source network address translations
- ◆ Emergency erase token. Erases all secrets on the dedicated machine
- ◆ Protected emergency erase button
- ◆ Event creation using SNMP, Syslog and additional proprietary protocol
- ◆ Optional UDP tunnelling of encrypted packets
- ◆ Optional user defined MAC addresses
- ◆ Optional static routing table

Performance

- ◆ Concurrent operation of max. 5000 subnets
- ◆ Throughput of 150 Mbps full duplex and 300 Mbps half duplex
- ◆ Packet latency < 12 µsec for single packet
- ◆ Real time encryption without tunnel setup time. No key exchange latency

Key Management

- ◆ On the fly session key calculation
- ◆ Key change for every packet
- ◆ Use only long keys with 256 or 512 bit key length
- ◆ Initial configuration using special USB security token

Diagnostics and Self-Test

- ◆ Automated self-test upon start-up
- ◆ Cryptor Tool USB for local diagnostic report
- ◆ Remote monitoring and diagnostic from GlobalAdmin Management program
- ◆ Built-in packet capture logic, packet generator and ping generator

Temperature & Relative Humidity

- ◆ Operating 0°C to 65°C
- ◆ 0% to 90% non-condensing

Power

- ◆ Dual-redundant 12Vdc @ 600 mA (nominal)
- ◆ External 110/220Vac to 12 Vdc power adaptors provided

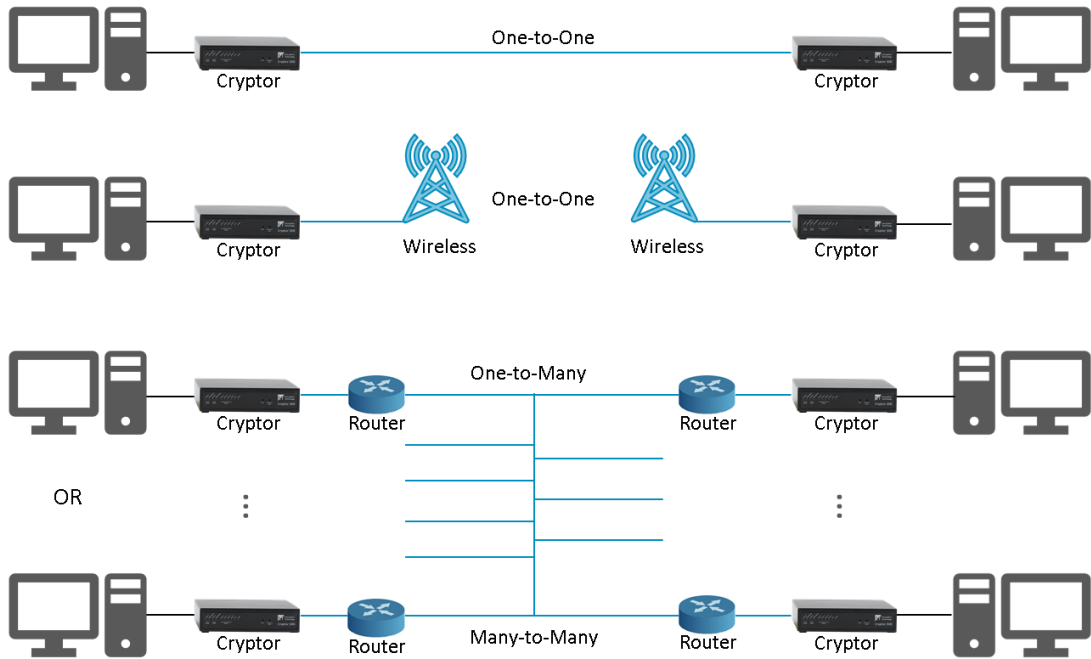
Physical Dimensions

- ◆ 145 mm x 125 mm x 35 mm (W x D x H)
- ◆ Din rail mount adaptor available (optional)

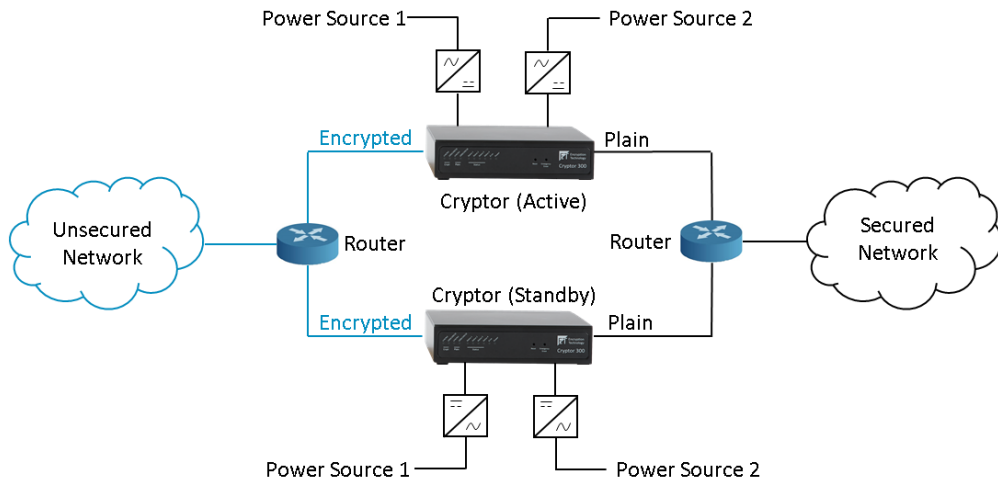
Interfaces

- ◆ 1 x 10/100/1000 Mbps Auto-sensing port (Encrypted)
- ◆ 1 x 10/100/1000 Mbps Auto-sensing port (Plaintext)
- ◆ 1 x USB 2.0 Client port
- ◆ 1 x USB 2.0 Host port

Cryptors Configuration



Redundant Cryptors and Power Source Configuration



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