



➤ TCE 621/M

NATO approved mobile IP encryptor



Provides information assurance for mobile operations, in the battlefield or for enterprise networks

The product is interoperable with other encryption devices in the Cryptel®-IP family – the dominant IP security system within the NATO community. The product is available with either Type A algorithm or Type B (AES) algorithm and is approved for handling NATO Secret information.

The TCE 621/M is specially designed to support highly mobile operations.

Key Features

- Small size
- Rugged
- Low power consumption
- Easy to use; web GUI and predefined profiles
- Flexible communication interfaces and protocols
- Extended key storage

TCE 621/M

IP encryption wherever you operate



The TCE 621/M is a compact encryptor in the Thales Cryptel-IP system. Cryptel-IP provides secure interconnection of LANs or single end-systems over unsecure networks by adding end-to-end security services to the IP protocol. All security services are provided according to the IPsec ESP protocol as specified by IETF.

The TCE 621/M is designed for use in hostile tactical environments. The small size and simplified setup makes it ideal for end-user handling and management without support of COMSEC experts.

The TCE 621/M supports communication protocols that allow secure transmission on various networks, Ethernet as well as point to point connections like tactical radios, mobile phones, etc.

The support of dynamic allocation of IP addresses allows free movements in IP based networks.

The performance of the equipment allows for support of real-time applications like VoIP and video conferencing.



Technical data

Security characteristics

Protection levels

- Type A algorithm: NATO SECRET
- Type B algorithm: NATO SECRET

TEMPEST

- SDIP-27 Level A

Security protocol

- IETF RFC 2406 ESP

Operational security

- Removable CIK
- Operator passwords
- Night mode
- Tamper protection
- Emergency erase
- Extended key storage
- Personal activation mode

Interfaces and protocols

Red port

- Ethernet 10/100 Mbit/s
- Optical interface support

Black port

- Ethernet 10/100 Mbit/s
- USB 2.0
- RS-232 via USB cable adapter
- Optical interface support
- Static or dynamic IP addressing schemes
- PPP, DHCP, RNDIS

Fill device interfaces

- DS-101 (RS-485); AN/CYZ-10 (DTD)
- DS-102; KOI-18
- ISO/IEC 7816 (Smart Card)
- Key and access control files via the web-browser interface

Power interface

- 10 - 30 VDC
- 110 - 240 VAC by separate AC/DC converter

Human machine interface

- WEB browser interface on separate Ethernet port
- Keypad
- LED indicators
- Power + EE switch

Physical characteristics

Dimensions

- 160 x 44 x 120 mm (W,H,D)

Weight

- 850 g

Power consumption

- Nominal: 6W

EMC

- MIL-STD-461F
- EN 55022 Class B

Environment

- MIL-STD-810-F
- RoHS
- WEEE
- IP67

Temperature

- Operation: - 40°C to + 55°C
- Storage: - 40°C to + 70°C
- Solar radiation: + 44°C, 1120 W/m²

Humidity

- (95 % RH non condensing)
- Operation: + 20°C to + 50°C
- Storage: + 20°C to + 60°C

Low pressure

- Operation: 15 000 ft altitude
- Storage: 30 000 ft altitude

Immersion

- 1 m water depth, 30 minutes

Vibration

- Helicopter, wheeled and tracked vehicles

Shock/acceleration

- 40G
- 122 cm fall on 5 cm pine plank

Other tests

- Sand and dust
- Salt fog
- Fungus growth
- Contamination by fluids

Performance

- 12 Mb/s,
- 3000 pps [short packets]
- Latency < 1 ms
- Up to 15 000 simultaneous SAs
- No SA establishment time

Other support functions

- QoS enabled (DiffServ)
- NAT
- Secure multicast
- PPP client
- DHCP
- RNDIS

Support components

- Network planner
- Security Management Center (TCE 671)
- Concentrator for support of dynamic IP addressing (TCE 621/V)
- Smart card reader
- Mounting brackets for 19" rack
- AC/DC adapter (110 - 240 VAC)
- Optical adapter (MT-RJ, LC)

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