

## INFORMATION ASSURANCE FOR MOBILE OPERATIONS

### TCE 621/M – IP encryption wherever you operate

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
- > Rugged
- > Easy to use
- > Low power consumption
- > Flexible communication interfaces and protocols
- > Extended key storage



NETWORK SECURITY

## TCE 621/M

### NATO approved mobile IP encryptor



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The TCE 621/M is a compact encryptor in the Thales Cryptel-IP system. The Cryptel-IP products 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:

Examples of communication equipment

**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

**Performance**

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

**Networking features**

- > IPv4/IPv6
- > QoS enabled (DiffServ)
- > NAT
- > Secure multicast (IGMP)
- > Multiple configurable communication profiles
- > DHCP

**Interfaces and protocols**

**Red port**

- > Ethernet 100 Mbit/s

**Black port**

- > Ethernet 10/100 Mbit/s
- > USB 2.0
- > RS-232 via USB cable adapter
- > Static or dynamic IP addressing
- > 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 + Emergency Erase 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

**Reliability (MIL-HDBK 217F)**

- > 85.000 h (Ground mobile 40° C)
- > 300.000 h (Ground benign 25° C)

**Support components**

- > Network planner
- > Security Management Center (TCE 671)
- > Concentrator for support of dynamic IP addressing (TCE 621/V)
- > Mounting brackets
- > Optical adapter (MT-RJ, LC)