



TÜBİTAK
BİLGEM



MÜHÜR

SECURE VOIP & DATA CRYPTO EQUIPMENT

MÜHÜR is an encrypted communication device designed to ensure the security of data classified at the SECRET confidentiality level. It provides secure voice and video communication capabilities and is compatible with the national Key Management System (KMS).

It enables the secure creation, editing, and viewing of office documents and media files in a protected environment, as well as the secure transmission of created and edited documents — both online and offline — via the mail application. All created documents are stored securely on a hardware-encrypted disk.



DATA PROCESSING AND SECURE COMMUNICATION

MÜHÜR

SECURE VOIP & DATA CRYPTO EQUIPMENT

FEATURES

Application	Supports unclassified or secure communication over IP networks. Creating and processing files using Office Applications
Communication Protocols	Unclassified or Secure Voice/Video Calls Secure Mail and Instant Messaging Secure Data Communication Secure Multi-Party Video Conferencing
Performance	Data transfer rate over IP networks: 100 Mbps 32 GB RAM 1 TB SSD Six hours active use with 189 Wh battery
Hardware and Connectivity	13.3 inch touchscreen Internal microphone and speaker Handset and audio output Front camera (5 MP), Rear camera(12 MP) 10/100/1000 Mbit RJ45 Ethernet interface Wi-Fi Interface USB Ports • 2 x USB 3.0 (Red) • 2 x USB 2.0 (Red) • 1 x USB 3.0 (Black) Key Fill Port (6-pin audio connector, DS-101) HDMI Power supply : 100-240 VAC 50/60 Hz
Security and Safety Features	Tamper detection and response mechanisms Recessed Emergency Erase Button Two factor authentication based on CIK and password Finger print Secure system design: • COMSEC: Turkish national COMSEC Authority approved • TEMPEST Test Guide, Level A • EMI/EMC: RE102, CE102
Encryption Algorithms	Hardware-based SECRET level algorithms • NATO algorithm set (AES-256, NIST P-521, P-384) • National algorithm set Quantum-resistant algorithms and cryptographic protocol
Remote Management Center (RMC)	Remote key update Remote software update Device management Monitoring of device logs Management of contact lists and groups
Software Features	Office and PDF applications Media player Secure mail and instant messaging application Printer support
Interoperable Devices	ELÇİ, MİLSEC-4A, MİLSEC-5A and SCIP Compatible NATO devices
Environmental Conditions	Operating temperature: 0 °C to +45 °C Storage temperature: 0 °C to +50 °C
Physical Characteristics	Weight: 3.5 kg Dimensions: 222mm (H) x 356mm (W) x 33mm (D)

*Due to continuing product improvements, these specifications are subject to change without notice

MÜHÜR EN-20260503

