



SETEL R2 SECURE SMARTPHONE MOBILE IP VOICE/DATA TERMINAL

ITALIAN NSA
CERTIFIED

SETEL Secure Phone products protect voice and data communications in digital and analog networks of armed forces government authorities and civil organisations.

SETEL Secure Phones are available in three versions:

- T2 desktop device for use at National/NATO restricted information level
- R2 mobile device for use at National/NATO restricted information level
- T6 desktop also enhancing at National/NATO Secret the level of confidentiality of the exchanged informations.

SETEL R2 smartphone provides the high performances of the latest generations mobile phones in both end-to-end secure and non secure communications modes over wideband 3G and WiFi public radio-mobile networks. R2 cellular phone combines in a single-terminal security, service-delivery in modern voice and high speed data cellular networks and user-friendliness.

SCIP and Crypto Modernisation compliant, the SETEL R2 is the only mobile phone certified to protect informations at IT National level supporting multiple key-sets as sponsored by governments and coalitions.

This product has been developed and provided by the Setel Consortium composed by Leonardo and Telsy.

KEY BENEFITS

- Cost-effective, modern secure smartphone
- Easy to use and manage
- Comprehensive security measures
- State-of-the-art keys management
- High-grade encryption in a mobile phone
- Enhanced interoperability
- Cloud-based secure data communications
- All-in-one secure smartphone
- Future-ready



SETEL SECURE PHONE - R2

R2 phone integrates security and access control measures based on PIN and MicroSD card in a single mobile device that doesn't need accounting for additional crypto cards.

SCIP is a multinational standard for secure voice and data communication also including national and multinational modes which employ different cryptography. SCIP may operate over the wide variety of communications systems, including commercial land line telephone, military radios, communication satellites, Voice over IP and several different cellular telephone standards.

In the range of SETEL Secure Phone Products, the customers are given the flexibility to choose the device that most efficiently protects against the most important security threats allowing them to safely share sensitive information through encrypted voice and text conversations.

By using products that have been assessed and approved by industry-independent security authorities for compliance with the high security standards posed by such organisations, individuals and organisations can make phone calls and send text messages, while remaining confident that their communications are protected against eavesdropping and manipulation attacks along the entire transmission path and that only the intended recipients will gain access to the information.



FEATURES OVERVIEW

Cost-effective, modern secure phone

ETE encrypted operation across networks, security mechanisms on EAL5+ security token/MicroSD, SCIP runs on Secure Voice communications up to NATO/National Restricted.

Ease of operation and Manage

Simple to use, large and intuitive touch display, removable smart card, remote web-based administration tool, non-CCI item in absence of security token.

Comprehensive security measures

User access control, emergency zeroizing, protected access to all crypto functions, COMSEC National/NATO Restricted level security.

State-of-the-art of keys management

Keys and configuration file generation via KDC-SCIP Key Distribution Centre, off-line key distribution via MicroSD security token.

High grade encryption in a mobile phone

The phone offers all features and convenience that users have come to expect in a modern mobile phone joined with COMSEC certified communication protection.

Enhanced interoperability

With government secure phones and commercial IP Phones, in SCIP clear and secure mode with SCIP-enabled devices of other NATO nations.

Cloud-based secure data communications

Proprietary KD03 VPN to Telsy Secure Cloud System (TSCS) delivering advanced data services, i.e. email exchange, file transfer, SIP server interaction. VPN is INFOSEC National Restricted level security certified.

All-in-one secure smartphone

Smooth transition to modern evolving communication patterns like mobility, portable devices and access anywhere and anytime focused in a handheld working tool that allows to protect sensitive information keeping communications secure.

Future-ready

Not a retrofit of older technology, integrated security, use in multiple networks, easy-to-upgrade software modular architecture.

SETEL R2 Mobile phone combines security and performances of the latest generation smartphones on the hardened Samsung Galaxy, Android OS.

Through a removable MicroSD security token relying on EAL5+ Common Criteria, the unit delivers the highest standard by the due separation of security and user plane management features.

SETEL R2 Phone is protected by authentication based on PIN/MicroSD preventing any unauthorized usage. As a 'security token' free standalone device, the phone is not subjected to regulations and restrictions of circulation of the military classified units and still may be used to place unsecure calls, just like an ordinary smartphone.

SETEL R2 Phone supports the following enhanced security features available in all operational modes:

- User authentication and identification
- Emergency Key and sensible data erasing
- Event security log
- Theft recovery
- Self-testing and safe alarm
- Confidentiality and integrity of the information
- Non-CCI item in absence of security token.

In standard operation mode, SETEL R2 device allows:

- Normal GSM calls in native clear mode
- Enhanced Data rates for GSM Evolution mode
- 3G UMTS communication technology
- Web browsing
- High quality voice
- GPRS data services

In IP/VOIP operation mode, SETEL R2 Phone:

- Communicate over IP network in native mode
- Access private LAN, through IP VPN network.

During SCIP operations, the unit supports the new market-emerging features as:

- Sending and receiving end-to-end SMS text secure messages over radio mobile network
- Communications in SCIP clear and SCIP crypto mode over 3G or WiFi, compliant with SCIP 210, and SCIP 214.2
- Compliance with SCIP 233 for voice and data NATO/National approved end-to-end encryption
- Interoperability with other SCIP devices on mobile networks or military infrastructural networks
- Interoperability, in clear and secure mode, with SCIP devices of other NATO Nations
- Interoperability with all Leonardo SETEL Phones

The remote web-based administration tool is an easy-to-use secure data terminal enabling configuration and monitoring of SETEL networks. The administration tool is composed by the following subsystems:

- Secure Cloud System (SCS)
- SCIP Application Monitoring Management System (SAMMS)

In addition, the Key Distribution Centre (KDC) completes the SETEL SW Suite.

SCS represents the enhanced communication infrastructure able to provide security functionalities as VPN Concentrator, Firewalling and enhanced data services as e-mail server, file data transfer server and SIP server. SAMMS Application provides dedicated SCIP devices management including monitoring and provisioning operations. SAMMS is designed for future interoperability with National and NATO PKI.

KDC is the management system of SCIP cryptographic credentials, keys and certificates, for National and NATO classified communications.



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TECHNICAL SPECIFICATION

PHONE PLATFORM	
GSM&EDGE Band	850/900/1800/1900
3G Band	1900/2100
CDMA Band	1900/2100
GPRS (General Packet Radio Services)	
EDGE (Enhanced Data rates for GSM Evolution)	
Memory	Total 16 GB (11 GB Free)
	MicroSD 8 GB
Android 4.1.2 Operating System	
Web Browser	
SAR Value	0,342 W/kg
LCD Display	Technology: HD Super AMOLED
	Dimensions: 4.8"
	Resolution: 1280 x 720
FORM FACTOR	
Dimensions	136.6mm x 70.6mm x 8.6mm
Weight	133g
POWER	
Internal Rechargeable Battery (Li-Ion) 2100 mAh	
Call Autonomy	Up to 10 ore (3G)
Stand-by Autonomy	Up to 460 hours (3G)
Internet Navigation Autonomy	3G: 7 hours
	Wi-Fi: 8 hours
Video Reproduction Autonomy	9 hours
Music Reproduction Autonomy	45 hours
Capacity	2100 mAh
USB Rechargeable	MicroUSB connector
PROCESSOR	
Type	Processor Exynos Quad Core
Frequency	1.4 GHz
INTERFACES	
WiFi	
3G GSM (clear)	
CONNECTIVITY	
Bluetooth	4.0 HS
USB	2.0 HS
WAP	2.0
SyncML Support (DS)	
Wi-Fi	
AGPS	
NFC	

OPERATIONAL MODES	
SCIP mode (clear and secure) over IP network	
VoIP mode	
Standard mode for GSM phone calls.	
COMMUNICATION PROTOCOLS	
SCIP 210, SCIP 214.2, SCIP 214.3	
SCIP 233	
SCIP 221 Rev3	
IETF SIP - RFC 3261	
CRYPTO HARDWARE	
Physical RNG	According to FIPS PUB 140-2
Security Token	ISO7816, EAL 5+.
CRYPTO ALGORITHM	
Suite (Type) B	
KEY MANAGEMENT	
Keys and configuration files generation via KDC	
Off-line key distribution via security token (smart card)	
Automatic SCIP Keyset selection	
SECURITY MECHANISMS	
Advanced security mechanism to guarantee the separation of the security services and the mobile applications	
Security mechanisms to strengthen Android OS	
Zeroize by software dedicated function	
INTEROPERABILITY	
SETEL Desktop and Mobile Phones	
Interoperable with all standard products from competing companies compliant with standard specifications in all supported network operational modes.	
CAMERA	
Resolution	8 MPx
Flash	
Auto Focus	
Digital/optical Zoom	Digital 4x
Shooting Mode	
Quality photo settings	
MESSAGING	
Secure SMS	
Standard SMS/MMS	
T9	
E-mail	
vCard/vCalendar	