

# SIM Cards

SIM Classic, a flexible Java Card™ product family for GSM and 3G services

## SIM Classic Highlights:

### Compliant with ETSI Release 6

SIM OS compliant with ETSI Release 5 & 6 specification

### Java Card Functionality

Sun Microsystems Java Card™ Specification

### Global Platform Functionality

Global Platform Card Specification

### SIM/USIM Functionality 3GPP, ETSI

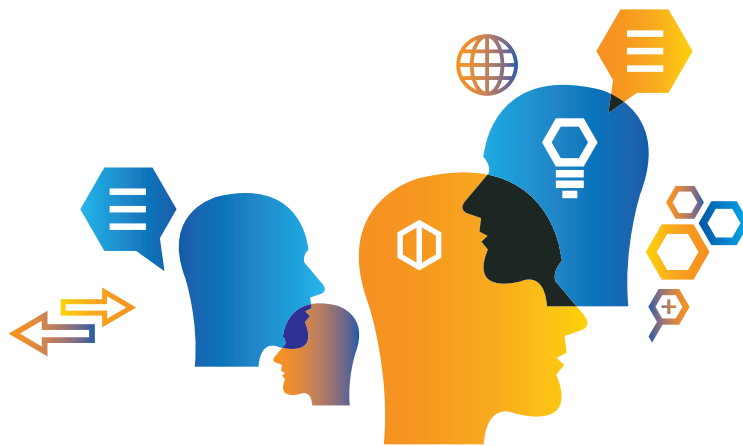
SAT/USAT Functionality 3GPP, ETSI  
CAT Functionality 3GPP, ETSI

### OTA Functionality 3GPP, ETSI

BIP/CAT\_TP Functionality 3GPP, ETSI

### Different Cutting Geometries

Including all different possibilities regarding 2FF, 3FF and 4FF form factors and SIM adaptors



Allowing the customer to choose from different form factors and available in the range of 32-256K

## SIM Classic 64K

### Introduction:

SIM Classic 64K product contains some solutions and applications developed in response to the mobile network operator needs and the different market requirements.

### Reference Specifications:

#### UICC

ETSI TS 102 221 Smart cards; UICC-Terminal interface; Physical and logical characteristics

ETSI TS 102 222 Integrates Circuit Cards (ICC); Administrative commands for telecommunications applications

3GPP TS 31.101 UICC-terminal interface; Physical and logical characteristics

#### SIM

3GPP TS 51.011 Specification of the Subscriber Identity Module-Mobile Equipment (SIM-ME) interface (GSM 11.11)

#### USIM

3GPP TS 31.102 Characteristics of the Universal Subscriber Identity Module (USIM) application

3GPP TS 31.900 SIM/USIM internal and external inter-working aspects

#### USAT

ETSI TS 102 223 Smart cards; Card Application Toolkit (CAT)  
3GPP TS 31.111 USIM Application Toolkit (USAT) (Release 5)

#### OTA

3GPP TS 23.048 Security Mechanism for the (U)SIM application toolkit; Stage 2  
3GPP TS 23.040 Technical realization of the Short Message Service (SMS)  
3GPP TS 23.041 Technical realization of Cell Broadcast Service (CBS)

#### JAVA CARD

#### Java Card™ v2.1.1

Application Programming Interface

#### Java Card™ v2.1.1

Runtime Environment Specification

#### Java Card™ v2.1.1

Virtual Machine Specification

#### GlobalPlatform

#### GlobalPlatform v2.1.1

Card Specification

Here are some highlights from the SIM Classic technical specification:

SIM OS compliant with ETSI Release 5 & 6 specifications.  
Java Card Functionality: Sun Microsystems Java Card™ Specification.

GlobalPlatform Card Specification.

SIM/USIM Functionality 3GPP, ETSI

SAT/USAT Functionality 3GPP, ETSI  
CAT Functionality 3GPP, ETSI  
TS 51.014

OTA Functionality 3GPP, ETSI

BIP/CAT\_TP Functionality 3GPP, ETSI



## SIM Classic 128K

## SIM Classic 256K

### Introduction:

SIM Classic 128K and 256K products contain some solutions and applications developed in response to the mobile network operator needs and the different market requirements.



### Reference Specifications:

#### UICC

**ETSI TS 102 221** Smart cards; UICC-Terminal interface; Physical and logical characteristics (Release 6)  
**ETSI TS 102 222** Integrated Circuit Cards (ICC); Administrative commands for telecommunication applications (Release 6)  
**3GPP TS 31.101** UICC-Terminal interface; Physical and logical characteristics (Release 6)

#### SIM

**3GPP TS 51.011** Specification of the Subscriber Identity Module-Mobile Equipment (SIM-ME) interface (Release 4) (GSM 11.11)

#### USIM

**3GPP TS 31.102** Characteristics of the Universal Subscriber Identity Module (USIM) application (Release 6)  
**3GPP TS 31.900** SIM/USIM internal and external interworking aspects

#### CAT

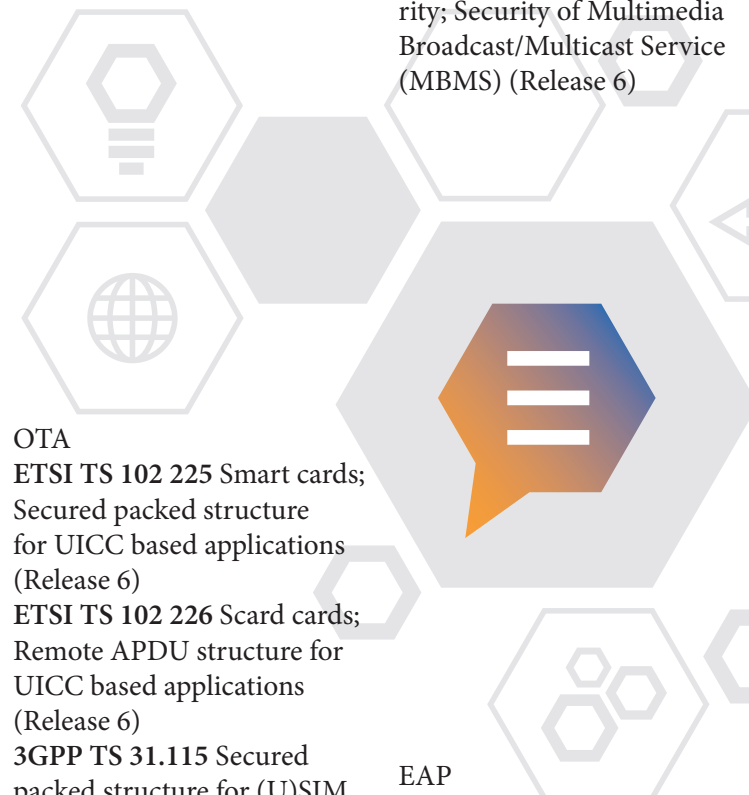
**ETSI TS 102 223** Smart cards; Card Application Toolkit (CAT) (Release 6)  
**ETSI TS 102 240** Smart cards; UICC Application Programming Interface and Loader Requirements; Service description (Release 6)  
**ETSI TS 102 241** Smart cards; UICC Application Programming Interface (UICC API) for Java Card™ (Release 6)

#### SAT

**3GPP TS 51.014** Specification of the SIM Application Toolkit for the Subscriber Identity Module-Mobile Equipment (SIM-ME) interface (Release 4) (GSM 11.14)  
**3GPP TS 43.019** Subscriber Identity Module Application Programming Interface (SIM API) for Java Card™ (Release 5)

#### USAT

**3GPP TS 31.111** USIM Application Toolkit (USAT) (Release 6)  
**3GPP TS 31.130** (U)SIM Application Programming Interface; (U)SIM API for Fava Card™ (Release 6)  
**3GPP TS 31.919** 2G/3G Java Card™ API based applet interworking (Release 6)



#### OTA

**ETSI TS 102 225** Smart cards; Secured packed structure for UICC based applications (Release 6)  
**ETSI TS 102 226** Smart cards; Remote APDU structure for UICC based applications (Release 6)  
**3GPP TS 31.115** Secured packed structure for (U)SIM Toolkit applications (Release 6)  
**3GPP TS 31.116** Remote APDU Structure for (U)SIM Toolkit applications (Release 6)  
**3GPP TS 23.040** Technical realization of the Short Message Service (SMS) (Release 6)  
**3GPP TS 23.041** Technical realization of Cell Broadcast Service (CBS) (Release 6)

#### CAT TP

**ETSI TS 102 127** Smart cards; Transport protocol for CAT applications (Release 6)

#### JAVA CARD

**Java Card™ v2.2.2** Application Programming Interface  
**Java Card™ v2.2.2** Runtime Environment Specification  
**Java Card™ v2.2.2** Virtual Machine Specification  
**GlobalPlatform GlobalPlatform v2.1.1** Card Specification

#### ISIM

**3GPP TS 31.103** Characteristics of the IP Multimedia Services Identity Module (ISIM) application (Release 6)

#### MBMS

**ETSI TS 133 246** Universal Mobile Telecommunication System (UMTS); 3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS) (Release 6)

#### EAP

**ETSI TS 102 310** Smart cards; Extensible Authentication Protocol support in the UICC (Release 6)  
**IETF RFC 4186** Extensible Authentication Protocol Method for Global System for Mobile Communications (GSM) Subscriber Identity Modules (EAP-AKA)  
**IETF RFC 4187** Extensible Authentication Protocol Method for 3<sup>rd</sup> Generation Authentication and Key Agreement (EAP-AKA)

## SIM Cutting Geometries

SIM Product portfolio includes all different possibilities regarding 2FF, 3FF and 4FF (normal, micro, mini) form factors.

ACT also provides the 2FF/3FF repluggable solu-

#### WIB 1.3

Client-Server Protocol Specification

#### SmartTrust WIB™ 1.3,

MPM02:0110, SmartTrust Implementation Specification  
SmartTrust WIB™ 1.3, MPM02:0111, SmartTrust Standard Plug-ins Document N°.17390018  
Standard security Plug-ins for the Wireless Internet Gateway Document N°. 17390008  
Universal 3DES Signature Plug-ins Document N°.17390024  
User Data Plug-ins for the Wireless Internet Gateway Document N°.17390025

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