英飞凌OPTIGA™ Trust 产品应用案例---设备认证



Chip Card & Security Application Portfolio



Smart Cards



Payment



SIM



Multi-application



Transport Ticketing



Access control



National eID



ePassport



eDriver's License



eHealth Card

Embedded Security



Trusted Computing



Authentication



eSIM



Entertainment



Connected Car



ICT



Mobile Payment



Mobile ID



Industry 4.0



Smart Home



Mobile Ticketing

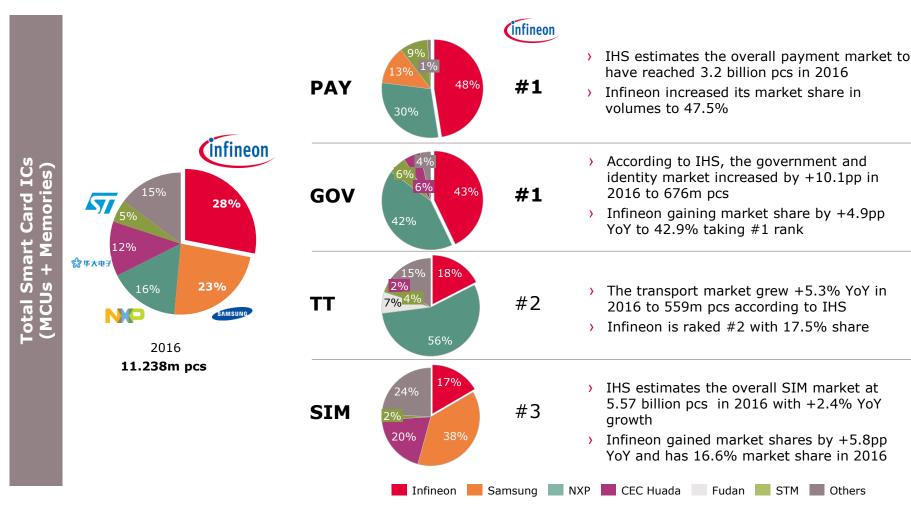


*ICT = Information & Communication Technology

As per IHS, IFX holds the #1 position in volume market shares with 48% in Payment and 43% in Government



IHS Market Share Estimation for the Full Year 2016 - [m pcs]



Source: Based on or includes content supplied by IHS Markit, Technology Group, Smart Cards Semiconductors Report - 2016, July 2017



IP Protection & Device Authentication/ IP保护和设备认证

OPTIGATM Trust应用和出货统计 **Application and shipment**





笔记本电池防伪

Laptop Battery authentication

全球最大PC厂

World #1 PC Vendor



打印机墨盒认证防伪

Cartridge authentication

国际大厂

Major OEM High Volume Production



充电器/蓝牙耳机

Charger/ BT headset authentication

全球著名手机品牌

Tier-1 Mobile Phone OEM

数码相机电池防伪

Digital Camera Battery authentication



日系大品牌

Japan Famous Brand

出货量已经超过30亿颗!

> 3 Billion Pcs shipment



工控板卡防抄板

Industry Control Board

Since 2012



绣花机主控板防抄

Sewing machine IP Protection

国内第一品牌

China #1 sewing machine vendor,



无人机电池认证 Drone battery authentication

World #1



净水器滤芯

Water Purifier Filter

品牌大厂

Tier-1 Vendor



OPTIGA™ Family

	OPTIGA™	OPTIGA™	OPTIGA™	OPTIGA™	OPTIGA™	OPTIGA™
	Trust B	Trust E	Trust M	Trust X	Trust P	TPM
	■⊞					
Security Level	Basic	CC EAL 6+	CC EAL 6+*	CC EAL 6+*	CC EAL 5+*	CC EAL 4+
Functionality	Authentication	Authentication	Connected device security - Toolbox based	Connected device security	Programmable	TCG standard
NVM (Data)	64 Byte	3 kByte	10 kByte	10 kByte	150 kByte **	6 kByte
Cryptography Private key stored in secure HW	ECC131	ECC256	ECC256 RSA2K	ECC256	ECC521 RSA2K	ECC256 RSA2K
Type of Host System	MCU without OS / proprietary OS / RTOS					
			Embedded Linux			
						Windows / Linux
Interface	SWI	I2C	I2C	I2C	UART	I2C, SPI, LPC
System integration	√	√	√	√	\checkmark	Platform vendor

[✓] Done by IFX

Customer Implementation, support by IFX * Based on certified HW

^{**} Code & Data

Security and Complexity



Part of your life. Part of tomorrow.

