



# SECURE CONNECTIONS FOR A SMARTER WORLD



**1949**

Motorola semiconductor development group founded in Phoenix, Arizona



**1955**

Motorola introduces germanium transistor for car radios—the world's first commercial high-power transistor

**1969**

First words from the Moon to the Earth relayed by a Motorola transponder



**1980**

Motorola and its automotive customers develop the world's first microprocessor-based engine control, the EEC III module, designed to reduce fuel consumption and emissions



**1983**

Philips Semiconductor's TDA7000 FM radio receiver is the first complete radio on a chip and is listed by IEEE® as "One of the 25 Microchips that Shook the World."

**1991**

Philips develops the first CAN/LIN transceiver for in-vehicle networking that meets strict automotive standards



**1993**

Philips Semiconductor founded

**PHILIPS**



**1995**

Motorola technology powers OnStar®—one of the first Internet of Things applications

**1996**

Motorola is one of first to deliver microelectromechanical systems (MEMS) inertial sensors for automotive airbags, addressing automotivesafety issues

**1997**

Philips launches the GreenChip power supply chip, which significantly improves energy efficiency of TVs, notebooks and desktops



**2002**

Philips Semiconductors and Sony invent Near Field Communication (NFC)



**2004**

Philips releases the first angular sensor as a system-in-package (SIP)



**1953**

Philips enters semiconductor industry with manufacturing and development in Nijmegen, Netherlands and Hamburg, Germany.



**1958**

Motorola teams up with the U.S. space program; virtually every manned and unmanned space flight since then has used Motorola/Freescale technology



**1974**

Motorola introduces its first microprocessor—the MC6800 8-bit model



**1984**

Motorola launches the MC68020—the world's first true 32-bit microprocessor



**1989**

Motorola pioneers communications processors with industry's first multi-protocol microprocessor

**1994**

Philips launches MIFARE® 1K chip for automaticfare collection



**1995**

Philips launches the Dirana car audio DSP, which would lead Philips/NXP to become market leader in car audio a few years later

**1996**

Philips introduces LDMOS technology for RF power amplifiers, setting a new industry benchmark in cellular base stations



**2000**

The e-switch product family creation is the first dual-die power package

**2002**

World's first tubing-free wireless insulin pump for diabetes patients uses Motorola microprocessors



**2003**

Motorola releases first pressure sensor to address U.S. TREAD act requirement for tire pressure monitoring

**2004**

Motorola Semiconductor Products Sector becomes Freescale Semiconductor, Inc.

## A WORLD THAT ANTICIPATES AND AUTOMATES

**2006**



NXP established



**2009**

NXP launches first industry-standard NFC IC, the PN544



**2009**

NXP creates the first micro hybrid power chip for start and stop

**2009**

NXP launches PNX85500—the world's first fully integrated digital TV processorcontaining around 350 million transistors

**2010**

NXP listed on the NASDAQ Stock Exchange in New York City

**2011**

NXP launches the SafeAssure® program

**2011**

NXP ships world's fastest Arm® Cortex®-M4 and Cortex-M3 microcontrollers

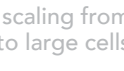


**2011**

Freescale launches industry's first magnetometer combining a magnetic sensor, accelerometer and pressure sensor; designed for location tracking in smart mobile devices

**2011**

Freescale introduces industry's first multimode wireless base station processors, scaling from small to large cells



**2012**

NXP launches JN516x wireless microcontroller family for the Internet of Things

**2012**

NXP launches MIFARE Ultralight EV1—the smart paper ticketing IC

**2012**

Freescale launches industry's first MCU built on the Arm Cortex-M0+ processor



**2013**

Ships one billionth GreenChip IC

**2013**

First power management IC integrating functional safety in the SafeAssure portfolio



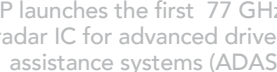
**2013**

NXP Semiconductors N.V. joins NASDAQ-100 Index



**2013**

NXP launches the first 77 GHz radar IC for advanced driver assistance systems (ADAS)



**2014**

Datang NXP Semiconductors established, becoming China's first true automotive semiconductor business



**2015**

NXP and Freescale merge into the world's 4th largest semiconductor company and largest automotive supplier



**2015**

NXP engineers win the distinguished "European Inventor Award for NFC"



**2015**

NXP creates the first integrated solution for microwave heating/cooking



**2016**

NXP launches battery management portfolio with battery cell controllers for Li-ion batteries

**2016**

Thomson Reuters Foundation honors NXP with the prestigious "Stop Slavery Award"

**2016**

NXP provides V2X and RFID technology for the U.S. Department of Transportation Smart City Challenge



**2017**

NXP introduces the S32 automotive platform, with fully-scalable computing architecture to bring future vehicles to market faster

**2017**

Launch of UCODE 8 the industry's most power efficient global RAIN RFID chip for omnichannel retail data



**2017**

Industry's first 65 V LDMOS technology, enabling ultra-rugged products up to 1.8 kW in power

**2017**

#1 supplier of microcontrollers with 19% market share, according to IC Insights



**2017**

NXP presents the world's first car infotainment radio/ultra-wideband solution for global radio broadcast standards

**2018**

NXP, Mastercard and Visa transform mobile payments for billions of IoT devices (launch of mWallet 2GO)



**2018**

NXP Honored as Top 100 Global Innovator



**2018**

Dutch innovation award for ultra-compact RFCMOS radar transceiver TEF810X

**2018**

NXP delivers new security and connectivity to 2018 FIFA World Cup Russia™ Finals with Smart Russia Experience



**2019**

NXP acquires Marvell's Wi-Fi® Connectivity Business



**2019**

iOS 13 and MIFARE power innovative smart city use cases

**2019**

i.MX RT crossover processor for voice and face recognition—world's fastest sub-dollar MCU



**2019**

NXP premier EdgeVerse™ brand platform to support the fast-growing edge computing portfolio



**2019**

NXP unveils secure ultra-wideband ranging technology for automotive and IoT

**2020**

NXP selects TSMC 5nm process for next-generation high-performance automotive platform

**2020**

NXP introduces S32G networking processor unlocking the value of vehicle data

**2020**

NXP debuts i.MX applications processor with dedicated neural processing unit for advanced machine learning at the edge

**2020**

NXP Advances 5G with New Gallium Nitride Fab in Arizona



**2021**



15 YEARS

**2021**

NXP Semiconductors to Join S&P 500 Index

**S&P 500**

