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|---|---|
| Type | Public |
| Traded as | <ul style="list-style-type: none">• NASDAQ: MCHP• NASDAQ-100 component• S&P 500 component |
| ISIN | US5950171042 |
| Industry | Semiconductors |
| Founded | 1989; 31 years ago |
| Headquarters | 2355 W Chandler Blvd Chandler, AZ 85224, USA |
| Key people | Steve Sanghi , Chairman & CEO J. Eric Bjornholt, CFO Ganesh Moorthy, President & COO |
| Products | Microcontrollers Serial EEPROMs Serial SRAM Analog ICs |
| Revenue | US\$5.35 billion (2019) ^[1] |
| Operating income | US\$707.4 million (2019) |
| Net income | US\$355.9 million (2019) |
| Number of employees | 18,286 ^[citation needed] (2019) |
| Website | microchip.com |



A 1988 vintage Microchip PIC16CR54 with the Apple Desktop Bus protocol pre-programmed, before they became an independent company, as used in a [Macintosh SE](#).

Microchip Technology Inc. is an American [publicly](#)-listed [corporation](#) that is a manufacturer of microcontroller, mixed-signal, analog and Flash-IP [integrated circuits](#). Its products include [microcontrollers](#) ([PIC](#), [dsPIC](#), [AVR](#) and [SAM](#)), Serial [EEPROM](#) devices, Serial [SRAM](#) devices, embedded security devices, [radio frequency](#) (RF) devices, thermal, power and battery management analog devices, as well as linear, interface and wireless solutions. Examples of these solutions include [USB](#), [zigbee](#), [MiWi](#), [LoRa](#), SIGFOX and [Ethernet](#).

Corporate headquarters are located in [Chandler, Arizona](#), with wafer fabs in [Tempe, Arizona](#), [Gresham, Oregon](#), and [Colorado Springs, Colorado](#), assembly/test facilities in [Chachoengsao, Thailand](#), [Calamba](#) and [Cabuyao](#), Philippines. Sales for the fiscal year ending on March 31, 2019 were \$5.35 billion.^[2]

Notable products include [PIC](#) microcontrollers, [MPLAB](#) development software and [hardware](#) and [PICKit](#) for hobbyists.



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History

Microchip Technology was founded in 1987 when [General Instrument](#) spun off its microelectronics division as a wholly owned subsidiary.^[3] Microchip Technology became an

independent company in 1989 when it was acquired by a group of venture capitalists, and went public in 1993.^[4]

In April 2009, Microchip Technology announced the nanoWatt XLP Microcontrollers, claiming the world's lowest sleep current.^[5] Microchip Technology had sold more than 6 billion microcontrollers as of 2009.^[6]

In April 2010, Microchip acquired [Silicon Storage Technology](#) (SST),^[7] and sold several SST flash memory assets to [Greenliant Systems](#) in May that year.^[8]

As of 2011, Microchip Technology ships over a billion processors every year. In September 2011, Microchip Technology shipped the 10 billionth PIC microcontroller.^[9]

In August 2012, Microchip acquired Standard Microsystems Corporation (SMSC).^[10] Among SMSC's assets were those it had previously acquired from [Symwave](#), a start-up that specialized in [USB 3.0](#) chips, and two hi-fi [wireless audio](#) companies — Kler Semiconductor and Wireless Audio IP BV.^{[11][12][13]}

In January 2016, Microchip agreed to buy [Atmel](#) for \$3.56 billion.^{[14][15][16]} [JPMorgan Chase](#) advised Microchip while [Qatalyst Partners](#) advised Atmel.^[17]

In March 2018, Microchip acquired [Microsemi Corporation](#) (NASDAQ: MSCC). The acquisition price represents a total equity value of about \$8.35 billion, and a total enterprise value of about \$10.15 billion, after accounting for Microsemi's cash and investments, net of debt, on its balance sheet at December 31, 2017.^[18]

Products

Microchip develops a wide range of [microcontrollers](#) and [integrated circuits](#) (ICs), for the hobbyist and professional markets.

Microcontrollers

Microchip is widely known for their line of [PIC microcontrollers](#), and their MCU-related product line includes:

- [PIC microcontrollers](#)
 - 8-bit MCUs - PIC10, PIC12, PIC16, PIC18
 - 16-bit MCUs - PIC24, dsPIC
 - 32-bit MCUs - PIC32MX, PIC32MZ
- Legacy [Intel MCS-51](#) MCUs
- [KEELOQ](#) MCUs for security applications
- rPIC MCUs for wireless sensor applications
- [AVR microcontrollers](#)
 - tinyAVR MCUs
 - megaAVR MCUs

- AVR XMEGA MCUs
- [SAM Arm-based microcontrollers and microprocessors](#)
- Computer software
 - [MPLAB IDE](#)
 - MPLAB Xpress
 - C and C++ compilers for PIC/dsPIC MCUs
 - Code libraries for PIC/dsPIC MCUs
 - Atmel START for AVR and SAM MCUs
- Development hardware
 - [MPLAB series](#) (debuggers & programmers for professionals)
 - [PICkit series](#) (programmers for hobbyists and students)

Integrated circuits

The Microchip product line of integrated circuits include:

- Memory storage devices
 - Serial [EEPROM](#) chips
 - Serial [SRAM](#) chips
 - Serial [Flash](#) chips
 - Parallel [Flash](#) chips
 - Serial [NVRAM](#) chips
- Interface devices
 - [USB](#) controllers
 - [ZigBee/MiWi](#) controllers
 - [CAN/LIN](#) controllers
 - [Ethernet](#) controllers
- Power management devices
 - Battery charge controllers (Li-Ion, NiMH, Multi-Chemistry)
 - Power [MOSFETs](#)
 - Voltage regulators
- Motor drivers
 - PWM-based controllers
 - DC motor controllers
 - BLDC motor controllers
- Touch sensing
 - mTouch (capacitive sensor technology)
 - RightTouch (turn-key capacitive sensor technology)
 - GestIC (3D Tracking and gesture detection technology)
 - Haptics (Eccentric Rotating Mass (ERM) actuators)
- Ultrasound devices
 - Ultrasound switches
 - Ultrasound transmitters

Acquisitions

HI-TECH Software

HI-TECH Software was an Australian-based company that provides [ANSI C compilers](#) and development tools. Founded in 1984, the company is best known for its HI-TECH C PRO compilers with whole-program compilation technology, or Omniscient Code Generation (OCG).^{[19][20]} HI-TECH Software was bought by Microchip on 20 February 2009,^[21] whereupon it refocused its development effort exclusively on supporting Microchip products.^[22]

Supported manufacturers and architectures :

- Microchip [PIC10](#), [PIC12](#), [PIC14](#), [PIC16](#), [PIC18](#), [PIC24](#), [PIC32](#) and dsPIC
- [Cypress PSoC](#)'s
- [Silicon Laboratories](#) MCUs
- [8051](#) MCUs
- [Z80](#) for [CP/M](#)^[23] and Z80 cross compiler.

Silicon Storage Technology

[EPROM](#) 28EE011 made by SST



SuperFlash memory chip

Silicon Storage Technology, Inc. (SST) was a [Sunnyvale, California](#), United States, technology company producing [non-volatile memory](#) devices and related products.^{[24][25]} SST supplied NOR flash and other [integrated circuits](#) for high-volume applications.^[26]

[Bing Yeh](#) co-founded SST in August 1989, and served as its chief executive.^[27]

At the 1992 Fall [COMDEX](#) trade show, SST introduced the first single-board 30 [MB](#) 2.5" [solid-state drive](#) with standard hard-disk [ATA](#) interface and a 5 MB [PC Card](#) memory card with built-in controller and firmware.^[28]

In 1993, SST moved its headquarters to [Sunnyvale](#). That same year, SST introduced its first SuperFlash technology products, with lower costs and faster write speeds. By the end of 1995, more than 90% of the [PC motherboards](#) produced in Taiwan had adopted SST's 1 [Mbit](#) SuperFlash EEPROM product for the [BIOS](#) storage.^[citation needed] The company had its [initial public offering](#) November 21, 1995, trading on the [NASDAQ](#) market under the symbol SSTI.^[29] Analytical models of SuperFlash were published.^{[30][31]} A five-year licensing agreement was

announced in January 1999 with [Acer Inc.](#).^[32] A 1997 lawsuit filed by Intel was settled in May 1999 after mediation.^[33]

In 2004, SST began to diversify beyond flash memory products, targeting consumer and industrial products with embedded solid-state data storage and RF wireless communication.^[34] In September 2004 SST purchased a majority stake in Emosyn, which designed products for [SIM cards](#). In October it announced the acquisition of G-Plus, based in [Santa Monica, California](#).^[34]

In 2006, SST announced a joint development agreement with [Taiwan Semiconductor Manufacturing Company](#) (TSMC) to develop 90 nm SuperFlash technology.^[35]

SST had its stock option grant practices investigated by the US [Securities and Exchange Commission](#), ending in June 2008.^[36] It determined it needed to restate earnings, and was given a de-listing notice by NASDAQ for filing late reports from 2006 through 2007.^[37] Business slowed in the [Great Recession](#). The company announced a loss on reduced revenues, reducing its workforce by 17% in December 2008.^[38]

In November 2009, Technology Resource Holdings offered to acquire the company for about \$200 million, but a group of shareholders thought it was undervalued.^[39] Starting in February 2010, private equity firm [Cerberus Capital Management](#) and public company Microchip Technology both made offers to acquire SST.^{[40][41]} In April 2010, Microchip completed the acquisition for about \$292 million.^{[42][43]} Microchip sold several SST flash memory assets to [Greenliant Systems](#) (founded by Yeh) in May of that year.^[44]

Other acquisitions

- [Atmel](#)
- EqcoLogic
- ISSC Technologies
- Micrel
- [Microsemi](#)
- SMSC
- Supertex
- [Vitesse](#)