GHi electronics

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SYSTEM ON MODULES

Production-Ready IoT SoMs

Overview

Our System on Modules (SoM) takes integration to the next level. With built in crystals, networking interface, and memories, you only need to provide power and a few connections to build modern, secure, IoT products.

All SoMs are based on the SC20260B chipset with added external memories.

- Based on SC20260 and SC20100.
- 480Mhz
- -40℃ to +85℃ industrial temperature range.
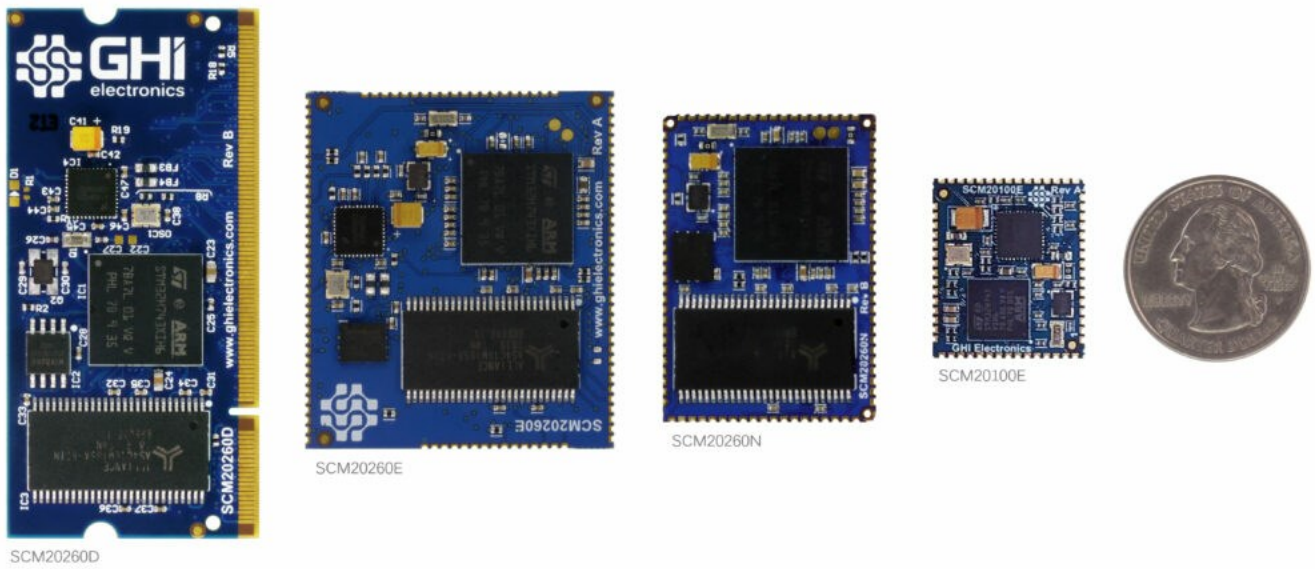
Modern Software

TinyCLR OS

TinyCLR OS is a modern, managed operating system that brings .NET to embedded devices. It offers garbage collection, threading, and full debugging which allows you to step through code and inspect variables over USB. No costly debugging tools are necessary.

Secure Hardware

Achieve ultimate security with an entire system running on internal memories. External memories are optional and only used for nonsensitive data, like image buffers. All that is achieved trough the SITCore Chipsets.

SITCore SoC

Module Options

SCM20260D

SCM20260E

SCM20260N

SCM20100E

Comparison

Module	SCM20100E	SCM20260N	SCM20260E	SCM20260D
External SDRAM	None	32 MByte	32 MByte	32 Mbyte
External Flash	None	16 Mbyte	16 Mbyte	16 Mbyte
Chipset	SC20100B	SC202060B	SC202060B	SC202060B
Speed	480Mhz	480MHz	480MHz	480MHz
USB Host	1	1	1	1
USB Client	1	1	1	1
GPIO		79	85	108
SPI		3	3	3
I2C		1	3	3
UART		7 (4 with handshaking)	8 (4 with handshaking)	8 (4 with handshaking)
CAN		2	2	2

PWM		22	23	28
ADC		16	15	20
DAC		2	2	2
SD/SDIP/MMC	1	1	1	1
Graphics	via SPI	16BPP TFT	16BPP TFT	16BPP TFT
Ethernet	Built in	via SPI	Built in	Built in
Camera	✗	1	1	1
Form Factor	Surface Mount	Surface Mount	Surface Mount	SO-DIMM
Temperature Range	-40℃ to +85℃	-40℃ to +85℃	-40℃ to +85℃	-40℃ to +85℃

Note: As many pins share peripherals, not all peripherals will be available.

Development Boards

Get started in minutes with a SITCore development board. Our development boards are great for evaluation, prototyping, and production of short run products.

Development Boards

Get Started

Description	Part Number	MSRP	Status
SITCore SCM20260D SoM	SCM-20260D-C	@100	Sampling
SITCore SCM20260E SoM	SCM-20260E-B	@100	Sampling
SITCore SCM20260N SoM	SCM-20260N-C	@100	Sampling
SITCore SCM20100E SoM	SCM-20100E-B	@100	Sampling

Distributor

Longevity

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