LTE Cat 4 Smart Modules

Model	Bands	Region	Form Factor
SC138-EAU	LTE : B1, B3, B5, B7, B8, B20, B28, B38, B40, B41	Asia, Europe, Australia, Brazil	LGA **/** LCC
SC806-AE	LTE: B1, B3, B5, B7, B8, B20, B38, B40, B41	Asia, Europe	LGA **/** LCC
SC806-AB	LTE: B1, B3, B5, B7, B8, B28, B40	Australia, Brazil	LGA **/** LCC
SC806-AM	LTE: B2, B4, B5, B12, B13, B17	North America	LGA **/** LCC
SQ808-JP	LTE: B1, B3, B6, B8, B9, B18, B19, B21, B26, B28, B41	Japan	LGA **/** LCC
SQ808-NA	LTE: B2, B4, B5, B7, B12, B13, B17, B25, B26, B66, B41	North America	LGA **/** LCC
SQ808-EAU	LTE: B1, B3, B5, B7, B8, B20 ,B28, B38, B40, B41	Asia, Europe, Australia, Brazil	LGA **/** LCC

[SS808-CN](#)	LTE: B1, B3, B5, B8, B34, B38, B39, B40, B41	China	LGA / LCC
[SS808-JP](#)	LTE: B1, B3, B6, B8, B9, B18, B19, B21, B26, B28, B41	Japan	LGA / LCC
[SS808-NA](#)	LTE: B1, B3, B6, B8, B9, B18, B19, B21, B26, B28, B41	North America	LGA / LCC
[SS808-EAU](#)	LTE: B1, B3, B5, B7, B8, B20, B28, B38, B40, B41	Asia, Europe, Australia, Brazil	LGA / LCC
[SU808-EAU](#)	LTE: B1, B3, B5, B7, B8, B20, B28, B38, B40, B41	Asia, Europe, Australia, Brazil	LGA / LCC

Wi-Fi Smart Modules

Model	Bands	Region	Form Factor
SC138-W	/	Global	LGA / LCC
SC826-W	/	Global	LGA / LCC
SC820-W	/	Global	LGA / LCC
SC806-W	/	Global	LGA / LCC
SQ808-W	/	Global	LGA / LCC
SS808-W	/	Global	LGA / LCC

SC138-EAU

Air Interface：4G, 3G, 2G

Region： Asia, Europe, Australia, Brazil

The SC138 smart module is designed with Qualcomm QCM6125 platform. It has an Octa-core high-end platform 4*A73 2.0g + 4*A53 1.8g processor and integrated high-performance graphics engine, which can play 4K video smoothly and support multi-channel camera input. SC138supports a variety of long-distance communication modes and short-distance 2.4G+5G wireless transmission technologies like Wi-Fi/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. SC138 preset open Android operating system with rich extension interfaces such as MIPI/ USB/ UART/ SPI/ I2C, which is the preferred solution for the core system of wireless intelligent products.

Basic Features

Dimensions	41.0mm x 41.0mm x 2.8mm
Package	148 LCC+ 84 LGA
Processor	Qualcomm's®QCM6125 Quad-core ARM Cortex ™ - • A73, 2.0GHz+Quad-core ARM Cortex ™-A53, 1.8GHz
GPU	Adreno 610
Memory (Default)	2GB LPDDR4X RAM;32GB eMMC Flash
Frequency	LTE-FDD B1/3/5/7/8/20/28 LTE-TDD B38/40/41 WCDMA:B1/2/5/8 GSM:850/900/1800/1900MHz
WiFi	2.4G+5G, 802.11 a/b/g/n/ac
BT	BT 5.0

SC806-AE

Region： Asia, Europe

The SC806 series is an LTE Cat 4 smart module designed with the Qualcomm MSM8909 platform as the basis with a smart and open Android operating system. The SC806 series is available in five versions, and covers the network bands of major carriers worldwide, includingSC806-CN/SC806-AM/SC806-AB/SC806-AE/SC806-W(Supports Wi-Fi& BT only). The module, LCC+LGApackaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/TDD-LTE, WCDMA, TDS-CDMA, CDMA, CDMA2000-EVDO and GSM and short-distance2.4G+5G wireless transmission technologies like WIFI/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB to be connected to an HD touch screen, and supports front and rear cameras. As an excellent solution for the core system of wireless intelligent products worldwide, this product can be widely used in smart wireless payment, smart robots, smart home, smart city and other industries.

Product Feature

Dimensions	40.5mm x 40.5mm x 2.8mm
Package	146LCC + 64 LGA pin
CPU	Qualcomm Quad Core Processor1.1GHz
DDR	1GBLP-DDR3
Flash	8GB eMMC
Operating temperature	-30~+70℃
Operating voltage	3.5~4.2V
Operating voltage	9.2g
LTE-FDD	B1/B3/B5/B7/B8/B20
LTE-TDD	B38/B40/B41

SC806-AB

Air Interface：4G, 3G, 2G

Region： Australia, Brazil

The SC806 series is an LTE Cat 4 smart module designed with the Qualcomm MSM8909 platform as the basis with a smart and open Android operating system. The SC806 series is available in five versions, and covers the network bands of major carriers worldwide, includingSC806-CN/SC806-AM/SC806-AB/SC806-AE/SC806-W(Supports Wi-Fi& BT only). The module, LCC+LGApackaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/TDD-LTE, WCDMA, TDS-CDMA, CDMA, CDMA2000-EVDO and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB to be connected to an HD touch screen, and supports front and rear cameras. As an excellent solution for the core system of wireless intelligent products worldwide, this product can be widely used in smart wireless payment, smart robots, smart homes, smart city and other industries.

Product Feature

Dimensions	40.5mm x 40.5mm x 2.8mm
Package	146LCC + 64 LGA pin
CPU	Qualcomm Quad Core Processor1.1GHz
DDR	1GBLP-DDR3
Flash	8GB eMMC
Operating temperature	-30~+70℃
Operating voltage	3.5~4.2V
Operating voltage	9.2g
LTE-FDD	B1/B3/B5/B7/B8/B28
LTE-TDD	B40

SC806-AM

Air Interface：4G, 3G, 2G

Region： North America

The SC806 series is an LTE Cat 4 smart module designed with the Qualcomm MSM8909 platform as the basis with a smart and open Android operating system. The SC806 series is available in five versions, and covers the network bands of major carriers worldwide, includingSC806-CN/SC806-AM/SC806-AB/SC806-AE/SC806-W(Supports Wi-Fi& BT only). The module, LCC+LGApackaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/TDD-LTE, WCDMA, TDS-CDMA, CDMA, CDMA2000-EVDO and GSM and short-distance2.4G+5G wireless transmission technologies like WIFI/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB to be connected to an HD touch screen, and supports front and rear cameras. As an excellent solution for the core system of wireless intelligent products worldwide, this product can be widely used in smart wireless payment, smart robots, smart homes, smart city and other industries.

Product Feature

Dimensions	40.5mm x 40.5mm x 2.8mm
Package	146LCC + 64 LGA pin
CPU	Qualcomm Quad Core Processor1.1GHz
DDR	1GBLP-DDR3
Flash	8GB eMMC
Operating temperature	-30~+70℃
Operating voltage	3.5~4.2V
Operating voltage	9.2g
LTE-FDD	B2/B4/B5/B12/B13/B17
UMTS	B2/B4/B

SQ808-JP

Air Interface：4G, 3G, 2G
Region：Japan
The SQ808 series is an LTE Cat 4 intelligent module designed with the Qualcomm QCM2150 platform as the basis with a smart and open Android operating. The module, LCC+LGA packaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/ TDD-LTE, WCDMA and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/ Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology.

Product Feature

Dimensions	41.0mmx 41.0mm x 2.8mm
Package	148LCC + 84 LGA pin
CPU	Qualcomm's®QCM2150 Quad-core ARM® Cortex-A53 processor; up to 1.3GHz；64-bitCPU
Memory	1GB/2GBLPDDR3+8GB/16GB eMMC
Operating temperature	-25<span style="font-family:" font-size:12px;white-space:normal;"="">℃~+75℃
Operating voltage	3.5~4.2V
Weight	About 9.3g
LTE-FDD	B1/B3/B6/B8/B9/B18/B19/B21/B26/B28
LTE-TDD	B41

SQ808-NA

Air Interface：4G, 3G, 2G
Region： North America
The SQ808 series is an LTE Cat 4 intelligent module designed with the Qualcomm QCM2150 platform as the basis with a smart and open Android operating. The module, LCC+LGA packaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/ TDD-LTE, WCDMA and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/ Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology.

Product Features

Package	148LCC + 84 LGA pin
CPU	Qualcomm's® QCM2150 Quad-core ARM® Cortex-A53 processor; up to 1.3GHz；64-bitCPU
Memory	1GB/2GB LPDDR3+8GB/16GB eMMC
Operating temperature	-25~+75℃
Operating voltage	3.5~4.2V
Weight	About 9.3g
LTE-FDD	B2/B4/B5/B7/B12/B13/B17/B25/B26/B66
LTE-TDD	B41
UMTS	B1/B2/B4/B5/B8

SQ808-EAU

Air Interface：4G, 3G, 2G
Region： Asia, Europe, Australia, Brazil

The SQ808 series is an LTE Cat 4 intelligent module designed with the Qualcomm QCM2150 platform as the basis with a smart and open Android operating. The LTE Cat 4 module, LCC+LGA packaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/ TDD-LTE, WCDMA and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/ Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. It is an ideal LTE Cat 4 solution for the development of smart devices such as smart POS, cash registers, robots, UAVs, smart homes, security monitoring and multimedia terminals.

Product Features

Dimensions	41.0mm x 41.0mm x 2.8mm
Package	148LCC + 84 LGA pin
CPU	Qualcomm's® QCM2150 Quad-core ARM® Cortex-A53 processor; up to1.3GHz；64-bitCPU
Memory	1GB/2GB LPDDR3+8GB/16GB eMMC
Operating temperature	-25~+75℃
Operating voltage	3.5~4.2V
Weight	About 9.3g
LTE-FDD	B1/B3/B5/B7/B8/B20/B28
LTE-TDD	B38/B40/B41

SS808-CN

Air Interface：4G, 3G, 2G
Region： China
SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor, 1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input.

Product Features	
Dimensions	41.0mm x 41.0mm x 2.8mm
Package	152LCC + 80 LGA pin
CPU	Qualcomm's®SDM450 ARM® CortexTM-A53 Octa-core-64-bit CPU, up to 1.8GHz
Memory (Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-30~+75℃
Operating voltage	3.5~4.2V
Weight	About 10.3g
LTE-FDD	B1/B3/B5/B8
LTE-TDD	B34/B38/B39/B40/B41
UMTS	B1/B8

SS808-JP

Air Interface：4G, 3G, 2G
Region：Japan
SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor,1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input.

Product Feature	
Dimensions	41.0mm x 41.0mm x 2.8mm
Package	152LCC + 80 LGA pin
CPU	Qualcomm's®SDM450 ARM® CortexTM-A53 Octa-core-64-bit CPU, up to 1.8GHz
Memory(Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-30~+75℃
Operating voltage	3.5~4.2V
Weight	About 10.3g
LTE-FDD	B1/B3/B6/B8/B9/B18/B19/B21/B26/B28
LTE-TDD	B41
UMTS	B1/B6/B8/B9/B19

SS808-NA

Air Interface：4G, 3G, 2G
Region： North America
SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor, 1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input. SS808 supports seven types of long-distance communication mode and dual-frequency WIFI/ BT close-range without. Line transmission technology, supporting GNSS wireless positioning technology. SS808preset open Android operating system, with MIPI / USB / UART / SPI / I2C and other extensions, is the preferred solution for the core system of wireless intelligent products.

Product Features

Dimensions	41.0mmx 41.0mm x 2.8mm
Operating temperature	-30~+75℃
Weight	About 10.3g
LTE-FDD	B2/B4/B5/B7/B12/B13/B17/B25/B26/B66
LTE-TDD	B41
UMTS	B1/B2/B4/B5/B8
GSM/EDGE	850/1800/1900MHz
WIFI	802.11 a/b/g/n/ac, 2.4G+5G
BT	4.2BLE
GNSS	GPS/GLONASS/Beidou

SS808-EAU

Air Interface：4G, 3G, 2G

Region： Asia, Europe, Australia, Brazil

SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor, 1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input.

Product Features	
Dimensions	41.0mm x 41.0mm x 2.8mm
Package	152LCC + 80 LGA pin
CPU	Qualcomm's®SDM450 ARM® CortexTM-A53 Octa-core-64-bit CPU, up to 1.8GHz
Memory (Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-30~+75℃
Operating voltage	3.5~4.2V
Weight	About 10.3g
LTE-FDD	B1/B3/B5/B7/B8/B20/B28
LTE-TDD	B38/B40/B41
UMTS	B1/B2/B5/B8

SU808-EAU

Air Interface：4G, 3G, 2G
Region： Asia, Europe, Australia, Brazil
The SU808 series is an LTE Cat 4 intelligent module designed with the UNISOC SL8541E platform as the basis with a smart and open Android operating. The module, LCC+LGA packaged for easy patching, integrated core components such as baseband, EMCP, PMU, Transceiver and PA, and supports long-distance communication modes such as FDD-LTE/ TDD-LTE, WCDMA, and GSM and short-distance 2.4G wireless transmission technologies like WIFI/ Bluetooth.

Product Features

Package	232pin
CPU	to 1.4GHz
1/2GB LPDD R3 RAM +8/16GB eMMC Flash	
Operating temperature	-20~+65℃
Operating voltage	3.5~4.2V
LTE-FDD	B1/B3/B5/B7/B8/B20/B28
LTE-TDD	B38/B40/B41
UMTS	B1/B2/B5/B8
GSM/EDGE	850/900/1800/1900MHz
WIFI	802.11b/g/n/2.4G

SC138-W

Air Interface：Wi-Fi

Region：Global

The SC138 smart module is designed with Qualcomm QCM6125 platform. It has an Octa-core high-end platform 4*A73 2.0g + 4*A53 1.8g processor and integrated high-performance graphics engine, which can play 4K video smoothly and support multi-channel camera input. SC138 supports a variety of long-distance communication modes and short-distance 2.4G+5G wireless transmission technologies like Wi-Fi/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. SC138preset open Android operating system with rich extension interfaces such as MIPI/ USB/ UART/ SPI/ I2C, which is the preferred solution for the core system of wireless intelligent products.

Basic Features

Dimensions	41.0mm x 41.0mm x 2.8mm
Package	148 LCC+ 84 LGA
Processor	Qualcomm's®QCM6125 Quad-core ARM Cortex ™ - • A73, 2.0GHz+Quad-core ARM Cortex ™-A53, 1.8GHz
GPU	Adreno 610
Memory (Default)	2GB LPDDR4X RAM;32GB eMMC Flash
WiFi	2.4G+5G, 802.11 a/b/g/n/ac
BT	BT 5.0
OS	Android Q
Power Supply	DC 3.5 ～ 4.2V

SC826-W

Region ： Global

SC826 module is an intelligent module based on Qualcomm MSM8953 platform. It has an Octa-core cortex-A53 processor, up to 2.0GHz main frequency, internal integrated high-performance graphics engine, which can play1080p video smoothly and support dual-screen displays. It supports seven long-distance communication modes and dual-frequency Wi-Fi/BT short-range wireless transmission technology, and supports GNSS wireless location technology. SC826 is based on the open Android operating system and has MIPI/USB/UART/SPI/I2C and other extended interfaces. It is the preferred solution for the core system of wireless intelligent products.

SC826 smart module can be widely used in various devices, including smart cash register, security monitoring, in-car equipment, vending

Product Feature

Dimensions	55.0mm*35.0mm *2.85mm
Package	154LCC pin + 149 LGA pin
CPU	Octa-core ARM Cortex-A53 processor 2.0GHz
Memory(Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-30~+75℃
Operating voltage	DC 3.5-4.2V, Typical 3.8V
Weight	About 12.1±1g

SC820-W

Region ： Global

SC820 smart module is designed based on Qualcomm MSM8953 platform, using Octa-core Cortex-A53 processor, 2.0GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input and also support seven types of long-distance communication mode and dual-frequency WIFI/BT close-range communication. Line transmission technology, supporting GNSS wireless positioning technology. SC820 preset open Android operating system, with MIPI /USB / UART / SPI / I2C and other extended interfaces. It is the preferred solution for the core system of wireless intelligent products.

Product Feature

Dimensions	45.0mm*43.5mm *2.85mm
Package	156LCC pin + 76 LGA pin
CPU	Octa-core ARM Cortex-A53 processor 2.0GHz
Memory(Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-25~+75℃
Operating voltage	DC 3.5-4.35V ,Typical 3.8V
Weight	About 12.3±1g
WIFI	802.11 a/b/g/n/ac, 2.4G+5G
BT	4.2BLE and earlier

SC806-W

Air Interface：wi-fi

Region： Global

The SC806 series is an LTE Cat 4 smart module designed with the Qualcomm MSM8909 platform as the basis with a smart and open Android operating system. The SC806 series is available in five versions, and covers the network bands of major carriers worldwide, includingSC806-CN/SC806-AM/SC806-AB/SC806-AE/SC806-W(Supports Wi-Fi& BT only). The module, LCC+LGApackaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/TDD-LTE, WCDMA, TDS-CDMA, CDMA, CDMA2000-EVDO and GSM and short-distance2.4G+5G wireless transmission technologies like WIFI/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB to be connected to an HD touch screen, and supports front and rear cameras. As an excellent solution for the core system of wireless intelligent products worldwide, this product can be widely used in smart wireless payment, smart robots, smart homes, smart city and other industries.

Product Feature

Dimensions	40.5mm x 40.5mm x 2.8mm
Package	146LCC + 64 LGA pin
CPU	Qualcomm Quad Core Processor1.1GHz
DDR	1GBLP-DDR3
Flash	8GB eMMC
Operating temperature	-30~+70℃
Operating voltage	3.5~4.2V
Operating voltage	9.2g
WIFI	802.11 a/b/g/n, 2.4G+5G
BT	BT 4.1 /4.2 BLE

SQ808-W

Air Interface ： Wi-Fi

Region ： Global

Fibocom SQ808-W would be your best matching IoT WiFi module for complex and multifunctional Internet of Things applications. Based on Qualcomm QCM2150 platform with a smart and open Android operating, the IoT WiFi module provides the best applicability for IoT applications. LCC+LGA packaged for easy patching, it integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/ TDD-LTE, WCDMA and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/ Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. With rich interfaces, the SQ808-W module delivers and flexibility in best, is an ideal WiFi module for IoT scenarios.

Product Features	
Dimensions	41.0mm x 41.0mm x 2.8mm
Package	148LCC + 84 LGA pin
CPU	Qualcomm's®QCM2150 Quad-core ARM® Cortex-A53 processor; up to 1.3GHz ； 64-bit CPU
Memory	1GB/2GBLPDD R3+8GB/16GB eMMC
Operating temperature	-25~+75℃
Operating voltage	3.5~4.2V
Weight	About 9.3g
WIFI	802.11 a/b/g/n/ac, 2.4G+5G
BT	4.2 BL

SS808-W

Air Interface ： Wi-Fi
Region ： Global
SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor, 1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input.

Product Features	
Dimensions	41.0mm x 41.0mm x 2.8mm
Package	152LCC + 80 LGA pin
CPU	Qualcomm's® SDM450 ARM® CortexTM-A53 Octa-core-64-bitCPU, up to 1.8GHz
Memory(Default)	2GB LPDD R3 RAM +16GB eMMC Flash
Operating temperature	-30~+75℃
Operating voltage	3.5~4.2V
Weight	About 10.3g
WIFI	4.2BLE
Cert.	CE*