

NEOWAY S726

Smart LTE Module for IoT Applications



- Support LTE Cat.4, WCDMA and GSM networks
- Support Wi-Fi 802.11a/b/g/n/ac and BT5.0.
- Support various GNSS position fix, including GPS, BDS, GLONASS.
- Support 3 cameras at most.
- Support 1080P@30fps video capture.
- Running Android 10 OS



Chipset

UNISOC UIS8581E

S726 is an intelligent LTE module that is developed on UNISOC UIS8581E platform and embeds PowerVR Fentale GE8322 GPU. With a octa-core ARM Cortex-A55 64-bit processor, it supports 1.6GHz main frequency and runs Android 10 OS.



Operating OS

Android 10

With a compact size, S726 provides rich interfaces such as LCM, camera, touch panel, microphone, speaker, UART, USB, I2C and SPI, which greatly expand its applications in M2M field. These feature allows it to be widely used in POS, smart home gateways, PDA, tablets, video surveillance, VR, Vehicle mounted equipment, information acquisition equipment, smart robots, smart home, industrial smart handheld equipment, UAV, police and law enforcement equipment, and other IoT terminals.



Various modes

Support LTE, WCDMA, and GSM networks

The S726 series support multiple network modes and frequency bands, so that it can be used in most regions around the world, including China, India, Southeast Asia, Europe, Africa, Middle East and other regions where LTE networks are deployed. They also support EDGE and HSPA to work in regions without LTE networks deployed.



Compact package

146-pin LCC + 128-pin LGA
40.5 mm x 40.5 mm x 2.85 mm



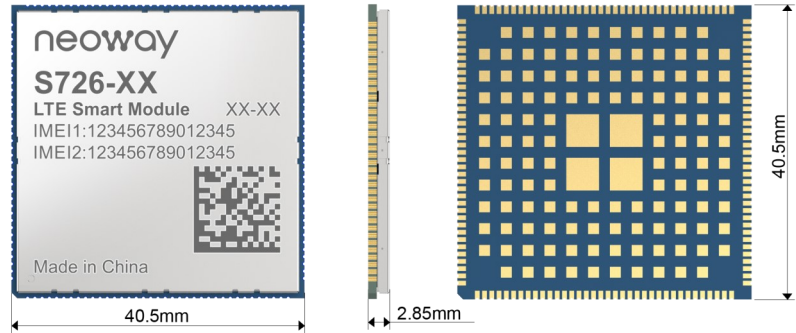
Technical support

Reference designs, evaluation kits
Timely support via emails, calls, and IM
Field support



S726 LTE Cat. 4

Ideal Solution for IoT Applications



Variants and Frequency Bands

S726-CA (China, India)	FDD-LTE: B1/B3/B5/B8 TDD-LTE: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800 MHz
S726-EA (EMEA, Southeast Asia)	FDD-LTE: B1/B3/B5/B7/B8/B20/B28 TDD-LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 850/900/1800 MHz

Specifications

Supply voltage	VBAT 3.5V to 4.2V, Typ. 3.8V
Operating temperature	-30°C to +75°C
Power consumption	Sleeping mode ≤ 2 mA Standby mode ≤ 5 mA
Dimensions	40.5 mm x 40.5 mm x 2.85 mm
Package	146-pin LCC + 128-pin LGA
Weight	Approx. 10.4g
Storage	16GB eMMC + 2GB LPDDR4X (default) 64GB eMMC + 4GB LPDDR4X (optional)
OS	Android 10
WLAN	2.4/5 GHz, 802.11a/b/g/n/ac
Bluetooth	BT5.0 or earlier version
GNSS	GPS/BDS/GLONASS
Codec	1080P@30fps

* indicates in development

Data Features

LTE	Cat 4 FDD: Max 150Mbps/50Mbps(DL/UL) Cat 4 TDD: Max 130Mbps/35Mbps(DL/UL)
UMTS/HSPA+	Max 42 Mbps/11.2 Mbps (DL/UL)
GPRS	Max 107 Kbps/85.6 Kbps (DL/UL)
EDGE	Max 296 Kbps/236.8 Kbps (DL/UL)

Interfaces

LCM	1 four-lane MIPI_DSI interface Support Max. FHD+ (2160 × 1080)
Touchscreen	Capacitive touch panel
Camera	2 four-lane MIPI_CSI, Support Max. 16MP
Audio	Analog audio (SPK, EAR, HEAD, and 3 MICs)
USB	2 USB2.0 interfaces USB1 supports USB2.0 high-speed interface USB2 only supports host mode
(U)SIM	2 USIM interfaces, compatible with 1.8 V/3.0 V
UART	3 UART interfaces One support hardware flow control
I2C	5 I2C interfaces
SD card	1 SD interface, supports SD 3.0
ADC	1 ADC interface
GPIO	Some GPIO interfaces
Antenna	Main antenna, diversity antenna, GNSS antenna, and Wi-Fi & BT antenna

Certification Approvals

CCC*, SRRC*, CE-R*, RoHS*

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Technical support: support@neoway.com

For more information, please visit www.neoway.com

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