SORACOM

Global IoT Multi-Carrier
3-in-1 Industrial Grade SIM Card

IoT Connectivity and Platform Services

Soracom provides IoT connectivity and platform services to over 20,000 businesses and over 4M connections, with solutions for every challenge in IoT. We're focused on making it easy to connect M2M devices at scale, with a powerful IoT SIM that provides connectivity in 160 countries. Soracom provides direct integrations with the world's leading cloud platforms, making it easy to transmit data from your device to AWS, Google Cloud Platform, or Microsoft Azure.

Our team of IoT experts is on hand to learn more about your challenges, and to discuss how Soracom can help at every stage of your product development lifecycle.

No Lock In's

Flexible Plans

Cloud Agnostic

Total Visibility

You create. We connect.

Soracom's Industrial Grade SIM card has been specially designed for intensive use and secures a longer product lifecycle. This SIM type targets M2M/IoT applications facing heavy or extreme environmental conditions where a 3-in-1 SIM card is required in Mini, Micro or Nano form factor (2FF, 3FF or 4FF). The Industrial Grade SIM has a special coating and enhanced chip characteristics to limit erosion and resist greater temperature, humidity, and vibration extremes.

Features:

- A reinforced SIM chip and plastic technology
- Temperature range: -40 to +105°C
- Available formats: 2FF, 3FF or 4FF (Mini, Micro or Nano SIM)
- Cellular data plans for 2G, 3G, 4G, LTE, and Cat-M1 with coverage in 160 countries
- Pay-as-you-go pricing - only ever pay for the data you use
- A secure IoT connection
- Direct integration with AWS, Azure, and Google Cloud
- Easy network control and management with the Soracom Console and API

Questions? Visit **soracaom.io** for more information.

Industrial Grade SIM Orderable Quantity

Soracom Part Number	Short Description	Minimum Order Quantity	Order Multiple	Number of devices per pack	Packaging Type
4573326590372	Industrial Grade SIM (AIR plan01s)	1	1	1	Box

Industrial Grade SIM Technical Specifications

Software Features

- Java Card™ 3.0.5 Classic
- Telecom applications
  - » USIM
  - » SIM
- OTA
- OTA over SMS (SCP80)
- OTA over HTTPs:
- Global Platform 2.2 amendment B (SCP81)
  - » Global Platform 2.2.1
  - » Amendment A: Controlling Authority Scenario 2b
  - » Amendment C: Dynamic Memory Allocation
  - » Amendment D: SCP03 support
  - » Amendment E/F: Scenario 3
- Java Card™ Cryptographic APIs
  - » TRNG
  - » CRC-16
  - » SHA-256
  - » CBC-DES, no padding
  - » CBC-AES-128, no padding
  - » CBC-AES-128 & 256, padding ISO9797 method 2
  - » SHA-256 + ECDSA
  - » HMAC-SHA-256, works with 128- and 256-bit keys
  - » ECDH, returns X coordinate (32B)
- Memory per profile: Dynamic Memory Allocation
- Up to 400kB Memory Space
- SIM applets
  - » SORACOM Subscription Container applet
  - » SORACOM Local Information applet
- Low Power: Suspend/Resume UICC during eDRX/PSM is enabled

Hardware Features

- Supply voltage 1.62V to 5.5V (Class A/B/C)
- Temperature Range:
  - » Operating -40°C to +105°C
  - » Storage -40°C to +125°C
- Data Retention: up to 15 years at 85°C
- NVM Endurance: up to 500,000 Cycles/page @ 105°C;
- Max. Cycling: 16 million per 8
- ESD Protection > 4kv
- Common Criteria EAL5+
- Ruggedized Form Factor MFF2 (ETSI TS 102 671 compliancy): TB-MA-HA-CA-VA-SA-RA-UB
- ROHS & REACH compliance
- Country of manufacture: China

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