



www.crownmntns.com

IC · AIOT · SMART MOBILITY

From Chips to Connected Machines

Automotive · IoT · Robotics · Drones · Smart Agriculture

Reliable Chip, Module & Connectivity Supply
for North American Technology Companies

MANUFACTURER ACCESS:

NOVOSENSE

SGMICRO

Quectel

Eigencomm

China Mobile IoT

Why IC, AIoT & Smart Mobility?

Crown Mountain Solutions — Connecting North American Technology to Chinese Manufacturing Excellence

Crown Mountain Solutions provides North American automotive, robotics, drone, and industrial IoT companies with direct access to world-class Chinese semiconductor and communication module supply chains. We bridge the gap between cutting-edge Chinese chip and module manufacturers and the North American customers who need reliable, application-ready supply.

5 Manufacturer Partners	600+ Product SKUs	6 Application Bundles	72h RFQ Response Target
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WHAT WE OFFER

- Manufacturer Access** — Direct sourcing from NOVOSENSE, SGMICRO, Quectel, Eigencomm, and China Mobile IoT — no grey-market risk.
- Technical Coordination** — Application-specific product selection, datasheet support, and engineering coordination.
- Chip-to-Module-to-Solution** — From automotive-grade analog ICs through cellular IoT modules to full AIoT deployment.
- Reliable Supply Chain** — Cross-border logistics, sample sourcing, and volume delivery execution.
- Automotive & Industrial Readiness** — AEC-Q100 qualified ICs, IATF 16949 certified module manufacturers, ISO 26262 compliant designs.

MARKET APPLICATIONS

Market Vertical	Representative Applications
Automotive Electronics	ADAS, EV traction, BMS, smart cockpit, chassis control, lighting
Robotics & Drones	5G/4G connectivity, GNSS/RTK positioning, motor drive ICs, edge AI
Smart Agriculture	Equipment telemetry, soil/environment sensing, precision positioning, livestock tracking
Industrial IoT	Remote monitoring, predictive maintenance, asset tracking, smart energy
Connected Vehicles	C-V2X, fleet management, telematics, OTA update modules
Smart Infrastructure	Edge computing nodes, gateway modules, device-cloud integration

Manufacturer Partners Overview

Five world-class Chinese manufacturers — automotive IC, analog power, cellular IoT, GNSS, and AIoT platforms

NOVOSENSE (纳芯微)

Automotive Analog & Mixed-Signal ICs | ISO 26262 ASIL-D · AEC-Q100 · 1.418B+ Chips Shipped

China's premier automotive-grade analog IC company, founded 2012. Sensors, digital isolators, gate drivers, motor drivers, signal chain, and power management. Full coverage for EV traction, BMS, ADAS, cockpit, chassis.

<https://www.novosns.com/en>

SGMICRO (圣邦微)

Analog & Power ICs | 15+ Families · 600+ Part Numbers

High-performance analog and mixed-signal ICs. Amplifiers, LDOs, DC/DC converters, interface ICs, analog switches, gate/motor drivers, battery management, LED drivers. Industrial, communication, and automotive applications.

<https://www.sg-micro.com/>

Quectel (移远通信)

5G / 4G / LPWA / GNSS / Automotive Modules | IATF 16949 · 230+ Carrier Certifications

Global #1 IoT module supplier. 5G, LTE Cat.1–Cat.20, NB-IoT, LTE-M, GNSS/RTK, C-V2X, and automotive-grade modules. Widest module portfolio worldwide with IATF 16949 certified manufacturing.

<https://www.quectel.com/>

Eigencomm (移芯通讯)

Cellular IoT SoC Chips | NB-IoT · Cat.1bis · Ultra-Low Power

EC616/EC616S NB-IoT SoC (Cortex-M3 204MHz, PSM 0.8 μ A) and EC618 Cat.1bis dual-core with integrated PMU (PSM 1.3 μ A). Purpose-built for smart meters, asset trackers, smart agriculture, and wearables.

<http://www.eigencomm.com/>

Qianmo Mobile IoT

IoT Platform · OS · SIM Management | OneNET · OneOS · OneLink

OneNET cloud IoT platform for device management and data analytics, OneOS Lite RTOS for MCU-class devices (Cortex-M/MIPS/RISC-V), and OneLink multi-operator SIM management. Smart city, industrial, and agriculture deployments.

<https://iot.10086.cn/>

Category A — Automotive-Grade Analog & Power ICs

NOVOSENSE · SGMICRO | AEC-Q100 · ISO 26262 · IATF 16949

NOVOSENSE (纳芯微)

ISO 26262 ASIL-D · 1.418B+ Chips Shipped · Automotive Analog IC Leader

NOVOSENSE is China's premier automotive-grade analog and mixed-signal IC company, founded 2012 and publicly listed on Shanghai STAR Market (688052). With over 1.418 billion chips cumulatively shipped, NOVOSENSE delivers ISO 26262 ASIL-D compliant products across sensors, signal chain, and power management.

KEY STRENGTHS

- ISO 26262 ASIL-D functional safety certification
- AEC-Q100 automotive qualification across product lines
- Full sensor + signal chain + power management coverage
- 1,000+ automotive-grade SKUs for chassis, powertrain, cockpit, ADAS

Automotive Solution Overview

NOVOSENSE

Intelligent Connected/Autonomous/In-vehicle Experience

- SerDes
- Class D
- Automotive audio bus
- High-side & low-side switch
- SBC
- Seat air bag MEMS pressure sensor
- Temperature & humidity sensor
- Magnetic switch position sensor
- High current pre-driver
- Digital relay
- Large screen rear light driver
- General power Buck/LDO
- Antenna/Camera load protection
- Voltage supervisor
- Ultrasonic sensor

Body Electronics & Lighting

- High-side & low-side switch
- eFuse
- Antenna/Camera load protection
- Multichannel half-bridge driver, pre-driver
- BDC/BLDC/Stepping motor driver
- General power Buck/LDO
- Voltage supervisor
- Magnetic switch position sensor
- Magnetic angle sensor
- Temperature sensor
- Digital relay
- Rear light & headlight driver
- Ambient lighting driver
- Interior lighting driver
- Stepping motor driver
- MCU
- CAN/LIN/MiniSBC interface

Chassis Control & Safety

- Pressure sensor conditioning IC
- Magnetic angle sensor
- Magnetic current sensor
- Magnetic switch position sensor
- ABS wheel speed sensor
- Antenna combiner controller
- eFuse

Fuel/Hybrid Powertrain

- Engine intake manifold MEMS pressure sensor
- Fuel vapor MEMS pressure sensor
- Crankshaft ventilator MEMS pressure sensor
- Canister desorption MEMS pressure sensor
- GPF/DPF differential pressure MEMS pressure sensor
- Pressure sensor conditioning IC

Inverter/Powertrain

- Smart ISO driver/Functional safety driver
- Digital isolator
- CAN/LIN/MiniSBC interface
- Magnetic current sensor
- Rotary transformer drive power amplifier
- Vacuum boost servo MEMS pressure sensor
- Isolated voltage/Current sensing
- PWM Controller
- MCU

Battery Management System

- ISO digital relay
- Digital isolator
- ISO & non-ISO OP amps
- CAN/LIN/MiniSBC interface
- BPS battery pack thermal runaway MEMS pressure sensor
- ISO power supply
- Magnetic current sensor
- Temperature & humidity sensor
- ISO & non-ISO power drive
- ISO current and voltage sensing
- PWM Controller

OBC/DC-DC/PDU

- ISO & non-ISO power drive
- Digital isolator
- ISO & non-ISO OP amps
- Magnetic current sensor
- Temperature sensor
- ISO current and voltage sensing
- Current sensing amplifier
- High-side & low-side /Motor driver
- CAN/LIN/MiniSBC interface
- General power Buck/LDO
- Power stage: Smart GaN
- PWM Controller
- Solid-state relay
- MCU

Thermal Management System

- CAN/LIN/MiniSBC interface
- ISO & non-ISO power drive
- Digital isolator
- Electronic water valve, water pump and fan special motor drive
- Magnetic angle sensor
- Magnetic current sensor
- Magnetic switch position sensor
- Multi-channel half-bridge driver, pre-driver
- BDC/BLDC/Stepping motor driver
- Pressure sensor signal conditioning chip
- Automotive micro & special motor driver IC
- PWM Controller
- MCU

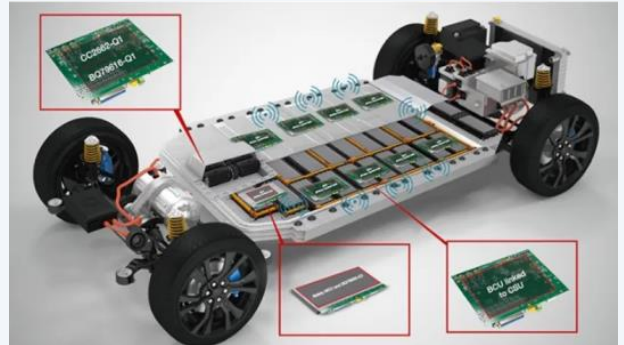
AUTOMOTIVE APPLICATION DOMAINS

Traction & Inverter System



Current sensors (NSC series), gate drivers (NSD series), digital isolators (NSI series) for EV motor inverters and traction control units.

Battery Management System



High-precision current sensors, voltage measurement ICs, cell balancing solutions, and isolated comm ICs for EV BMS.

Smart Cockpit



Automotive sensor signal conditioning, power management, interface ICs, and digital isolators for instrument clusters and infotainment.

Intelligent Driving / ADAS



Signal chain ICs, power management, and isolated interfaces supporting radar, camera, LiDAR, and ADAS compute platforms.

Chassis Control



Current and position sensing ICs, motor drivers, and gate drivers for EPS, ESC, EMB, and active suspension.

Automotive Lighting



LED driver ICs, power switches, and linear regulators for adaptive headlights, DRL, and interior ambient lighting.

NOVOSENSE — Product Families

Product Series	Category	Key Features
NSC Series	Current Sensors	Isolated & non-isolated Hall-effect current sensing ICs; EV inverters and BMS
NSD / NSG Series	Gate Drivers	Single/dual-channel isolated gate drivers for IGBT and SiC MOSFET; ASIL-B/D
NSI Series	Digital Isolators	Multi-channel reinforced digital isolators for SPI, I2C, UART; 5kVrms; AEC-Q100
NST Series	Temperature Sensors	Automotive-grade digital temperature sensors and analog signal conditioning ICs
NSM Series	Magnetic Sensors	Angle, position, and speed sensing for motor commutation and chassis applications
NSP Series	Pressure Sensors	ASIC signal conditioning for MEMS pressure sensors; automotive media compatibility
NSF Series	Interface ICs	CAN, LIN, RS-485 transceivers; AEC-Q100 Grade 0/1; automotive bus interface
NSB Series	Motor Drivers	H-bridge and three-phase BLDC motor drivers; integrated protection; automotive grade
Power Mgmt	LDO / DC-DC	Automotive LDO regulators (40V), step-down converters, power switches; AEC-Q100

SGMICRO (圣邦微)

High-Performance Analog & Mixed-Signal ICs · 600+ Part Numbers · Industrial & Automotive

SGMICRO offers over 600 part numbers across 15+ product families. Coverage spans amplifiers, data converters, interface, analog switches, DC/DC, LDO, battery management, motor and gate drivers, LED drivers, PMU, and SBCs — serving industrial, communication, and automotive applications.

SGMICRO — PRODUCT FAMILIES

Product Family	Description
Analog Switches & MUX	Low on-resistance SPST/SPDT switches and multiplexers; automotive-grade versions available
LDO Regulators	Low dropout regulators; automotive-grade 40V input; low quiescent current designs
Smart High-Side Switches	Integrated protection (OCP, TSD, ESD); automotive load switches and power distribution
Op Amps & Comparators	Rail-to-rail input/output; low noise; single supply; automotive temperature range
DC/DC Converters	Step-down, step-up, SEPIC topologies; wide VIN range; sync and async options
Gate Drivers	Half-bridge, isolated and non-isolated gate drivers for MOSFET/IGBT applications
Motor Drivers	Stepper, DC, BLDC motor driver ICs with integrated current sensing and protection
Battery Management	Li-ion protection ICs, cell balancers, fuel gauge ICs; multi-cell configurations
LED Drivers	Automotive-grade LED drivers for lighting; linear and switching architectures
Interface / Transceiver	RS-485, CAN, LIN interface ICs for industrial and automotive bus applications

Category B — Cellular IoT & Communication Modules

Quectel · Eigencomm · China Mobile IoT | 5G · 4G · NB-IoT · Cat.1

Quectel (移远通信)

Global #1 IoT Module Supplier · IATF 16949 · 230+ Carrier Certifications

Quectel is the world's largest IoT module vendor, offering the broadest portfolio of wireless modules across 5G, LTE Cat.1–Cat.20, NB-IoT, LTE-M, GNSS, RTK, and automotive-grade connectivity. IATF 16949 certified manufacturing. Over 230 carrier certifications globally.

5G MODULES

Model	Technology	Key Features / Applications
RG660Q	5G Sub-6GHz	Wi-Fi 7 + 5G combo; automotive cockpit, edge AI gateway; mmWave optional
RM255C	5G RedCap R17	Low-power 5G RedCap; IIoT and video surveillance; R17 compliant
RG500U-EA	5G Sub-6GHz	Multi-mode NR/LTE/WCDMA/GNSS; industrial routers and CPE
RM500Q	5G Sub-6GHz	M.2 form factor; high-throughput edge computing; NA/EU/APAC variants

4G LTE & LPWA MODULES

Model	Technology	Key Features / Applications
EC20-CE	LTE Cat.4	150/50 Mbps; compact SMT module; industrial tracker and router
EC200A	LTE Cat.1	Cost-optimized Cat.1; VoLTE; smart meters and wearables
EG95	LTE Cat.4	Multi-band LTE + WCDMA fallback; worldwide variants; M.2 and LCC+LGA
BG95 Series	NB-IoT/Cat-M	Multi-mode NB-IoT+LTE-M+EGPRS; integrated GNSS; ultra-low power
BG77	NB-IoT/Cat-M	Dual-mode NB2+LTE-M2; PSM & eDRX; asset tracking and smart agriculture

Eigencomm (移芯通讯)

Cellular IoT SoC Specialist · NB-IoT / Cat.1bis · Ultra-Low Power

Eigencomm EC616/EC616S NB-IoT SoC integrates ARM Cortex-M3 at 204 MHz with 1MB Flash and delivers PSM current as low as 0.8 μ A — enabling 10+ year battery life. The EC618 Cat.1bis adds dual-core architecture with integrated PMU.

Chip	Technology	Key Specs / Target Applications
EC616	NB-IoT SoC	Cortex-M3 204MHz · 1MB Flash · PSM 0.8 μ A · Meters, sensors, agriculture
EC616S	NB-IoT SoC+	EC616 + enhanced RF · Extended temperature · Utility and infrastructure IoT
EC618	Cat.1bis SoC	Dual-core · Integrated PMU · PSM 1.3 μ A · Wearables, trackers, industrial

Category C & D — GNSS/RTK Positioning + Automotive Connectivity

Quectel | LG290P RTK · AG55xQ 5G C-V2X · AG52xR LTE-A

Category C — GNSS & RTK Positioning Modules

Model	Type	Capability / Applications
LG290P	Quad-band RTK	< 1 cm RTK accuracy; GPS/GLONASS/BeiDou/Galileo; agriculture drones, autonomous vehicles
LC29H	DR + GNSS	IMU-integrated dead reckoning; automotive-grade; tunnel/urban canyon navigation
LC26G	GNSS	Compact, low-power multi-constellation GNSS; asset tracking and wearables
LLCC68	UWB	Ultra-wideband centimeter indoor positioning; robotics and AGV navigation

Category D — Automotive Connectivity & C-V2X

Quectel's automotive-grade modules are manufactured under IATF 16949 and designed to AEC-Q100 criteria, supporting intelligent connected vehicles (ICV), V2X communications, and advanced telematics for OEM and tier-1 programs.

Model	Technology	Application Focus
AG55xQ	5G C-V2X	SA/NSA 5G + C-V2X PC5/Uu; smart cockpit; V2X RSU/OBU; autonomous driving platform
AG52xR	LTE-A C-V2X	LTE Cat.12 + C-V2X; connected vehicle telematics; fleet and commercial vehicle ICV
AG15	4G Automotive	LTE Cat.4 automotive; AEC-Q100; eCall/ERA-GLONASS; fleet tracking
EG31-GL	LTE Cat.1	Global automotive LTE Cat.1; multi-band; voice support; integrated GNSS

China Mobile IoT

OneNET Cloud · OneOS RTOS · OneLink SIM Management

China Mobile's IoT division provides a complete device-to-cloud stack: OneNET cloud platform for device management and data processing, OneOS Lite RTOS for MCU-class constrained devices (Cortex-M, MIPS, RISC-V), and OneLink connectivity management for multi-operator IoT SIM services.

Product	Layer	Technology / Features	Applications
OneNET	Cloud IoT Platform	Device management, data storage, rule engine, API gateway; MQTT/HTTP/CoAP support	Smart city, industrial monitoring, energy
OneOS Lite	IoT RTOS	Lightweight RTOS; Cortex-M/MIPS/RISC-V; sub-10KB footprint; POSIX-compatible	Smart appliances, MCU devices, sensor nodes
OneLink	SIM Management	Multi-operator SIM, data steering, connectivity analytics, eUICC support	Fleet, asset tracking, distributed IoT
OneMO	IoT Module	NB-IoT/Cat.1 modules with OneNET onboarding; pre-certified for China Mobile	Meter reading, smart agriculture, logistics

Category F — Application Solution Bundles

Pre-configured sourcing bundles for North American technology deployments

◆ Smart Agriculture Connectivity Kit

Precision agriculture, equipment telemetry, livestock tracking, soil/environment monitoring.

Component Layer	Recommended Product
Cellular IoT Module	Quectel BG95/BG77 (NB-IoT + GNSS integrated)
RTK Positioning	Quectel LG290P quad-band < 1cm accuracy
Sensor Signal ICs	NOVOSENSE NST temperature, NSP pressure signal conditioning
MCU Connectivity	Eigencomm EC616 NB-IoT SoC for sensor nodes
IoT Platform	China Mobile OneNET for data aggregation and visualization

◆ Autonomous Robot Connectivity Kit

Delivery robots, inspection robots, warehouse AMR, outdoor mobile robots.

Component Layer	Recommended Product
5G/4G Module	Quectel RM500Q / EC20 for command and telemetry
GNSS/DR Module	Quectel LC29H IMU-integrated dead reckoning
Motor Drive ICs	NOVOSENSE NSB motor drivers + NSC current sensors
Gate Drivers	NOVOSENSE NSD isolated gate drivers for power stage
Edge Platform	Quectel AI module with 5G backhaul

◆ Drone / UAV Positioning & Comms Kit

Inspection drones, agricultural UAVs, mapping drones, security patrol.

Component Layer	Recommended Product
RTK GNSS	Quectel LG290P < 1cm positioning for precision flight
4G/5G Datalink	Quectel EC200A or RM500Q for video/control uplink
Motor Drivers	SGMICRO / NOVOSENSE motor driver ICs for ESC
Power Management	NOVOSENSE power ICs for battery monitoring
NB-IoT Tracker	Eigencomm EC616 for ground asset tracking

◆ Smart Vehicle / ICV Kit

Autonomous driving, smart cockpit, fleet monitoring, V2X, telematics.

Component Layer	Recommended Product
5G C-V2X Module	Quectel AG55xQ for V2X + 5G connectivity
RTK Positioning	Quectel LG290P or LC29H automotive-grade GNSS/DR
Traction ICs	NOVOSENSE current sensors + gate drivers for inverter
BMS ICs	NOVOSENSE isolated monitoring and balancing ICs for EV battery
Cockpit ICs	SGMICRO power management + interface ICs

◆ Industrial IoT Remote Monitoring Kit

Equipment health monitoring, power infrastructure, remote control, predictive maintenance.

Component Layer	Recommended Product
Cellular Module	Quectel EC200A / EC20 Cat.1/Cat.4 for reliable uplink
NB-IoT Chip	Eigencomm EC616 ultra-low power for sensor nodes
IoT Platform	China Mobile OneNET for device management + analytics

Signal Chain	NOVOSENSE / SGMICRO signal conditioning ICs for sensors
Power Management	SGMICRO LDO + DC/DC for panel power from grid or solar

◆ Asset Tracking & Smart Logistics Kit

Fleet tracking, container monitoring, cold chain, high-value asset location.

Component Layer	Recommended Product
Cat.1 Module	Quectel EC200A or EG95 with integrated GNSS
NB-IoT Tracker Chip	Eigencomm EC616 for long-life wireless beacons
RTK/GNSS	Quectel LC26G for fleet vehicle precision positioning
IoT SIM	China Mobile OneLink for multi-network SIM management
Motion/Temp Sensing	NOVOSENSE NST / magnetic sensors

Product Matrix

Complete IC, Module & Platform Reference — Crown Mountain Solutions

Manufacturer	Product	Category	Certification	Key Applications
NOVOSENSE	NSC Series	Current Sensor IC	AEC-Q100	EV inverter, BMS, motor drives
NOVOSENSE	NSD Series	Isolated Gate Driver	AEC-Q100, ASIL-B/D	SiC/IGBT traction inverter
NOVOSENSE	NSI Series	Digital Isolator	AEC-Q100, 5kVrms	Battery comm, EV powertrain
NOVOSENSE	NST Series	Temp Sensor IC	AEC-Q100	Cockpit, ADAS thermal management
NOVOSENSE	NSM Series	Magnetic Sensor	AEC-Q100	Motor commutation, chassis
NOVOSENSE	NSF Series	CAN/LIN Interface	AEC-Q100 Gr.0	Automotive bus networks
NOVOSENSE	NSB Series	Motor Driver IC	AEC-Q100	Chassis actuators, HVAC
NOVOSENSE	Power PMU	LDO / DC-DC	AEC-Q100	Cockpit, ADAS power rail
SGMICRO	Analog Switches	MUX / Switch IC	Industrial / Auto	Signal routing, data acquisition
SGMICRO	LDO Regulators	Linear Regulator	Industrial / Auto	Sensor power, MCU supply
SGMICRO	Smart HS Switch	Load Switch	Industrial / Auto	Power distribution, protection
SGMICRO	Gate Drivers	Gate Driver IC	Industrial / Auto	MOSFET/IGBT gate control
SGMICRO	Motor Drivers	Motor Driver IC	Industrial / Auto	Stepper, BLDC, DC motors
SGMICRO	Battery Mgmt	Protection / BMS IC	Industrial	Li-ion protection, balancing
Quectel	RG660Q	5G+Wi-Fi7 Module	IATF 16949	Automotive cockpit, edge gateway
Quectel	RM255C	5G RedCap Module	IATF 16949	IIoT, video surveillance
Quectel	EC200A	LTE Cat.1 Module	IATF 16949	Smart meters, wearables
Quectel	EG95	LTE Cat.4 Module	IATF 16949	Routers, industrial gateways
Quectel	BG95	NB-IoT+GNSS Module	IATF 16949	Smart agriculture, asset tracking
Quectel	LG290P	RTK GNSS Module	IATF 16949	Drones, autonomous vehicles, AGV
Quectel	LC29H	DR+GNSS Module	IATF 16949, AEC-Q100	Automotive dead reckoning
Quectel	AG55xQ	5G C-V2X Module	IATF 16949, AEC-Q100	V2X, ICV, smart cockpit
Quectel	AG52xR	LTE-A C-V2X Module	IATF 16949, AEC-Q100	Fleet telematics, connected vehicle
Eigencomm	EC616	NB-IoT SoC	—	Smart meters, sensors, agriculture
Eigencomm	EC616S	NB-IoT SoC+	—	Industrial IoT, infrastructure
Eigencomm	EC618	Cat.1bis SoC	—	Wearables, trackers, industrial
CM IoT	OneNET	Cloud IoT Platform	ISO 27001	Device mgmt, data visualization
CM IoT	OneOS Lite	MCU RTOS	—	Constrained IoT edge devices
CM IoT	OneLink	SIM Management	—	Multi-network fleet and IoT SIM

How Crown Mountain Solutions Supports You

From product selection to cross-border delivery — your reliable sourcing partner

▶ 1. Application Review

Share your system architecture or use case. Our team matches your requirements to the right manufacturer, product family, and series.

▶ 2. Manufacturer Introduction

We facilitate direct technical introductions to NOVOSENSE, SGMICRO, Quectel, Eigencomm, or China Mobile IoT engineering teams when needed.

▶ 3. Sample Sourcing

We source engineering samples with technical documentation. Typical sample lead time 2–4 weeks depending on manufacturer and product.

▶ 4. Certification & Compliance Support

We advise on existing certifications (AEC-Q100, IATF 16949, FCC, CE, RoHS, REACH) and connect you to manufacturer compliance teams for additional documentation needs.

▶ 5. Volume Procurement

Competitive pricing through manufacturer-direct relationships. Cross-border logistics coordination, customs documentation, and delivery tracking.

▶ 6. Ongoing Supply Chain Support

Periodic product roadmap updates, EOL notifications, and alternative product recommendations to keep your project on track.

Contact Crown Mountain Solutions

Ready to source? Contact us for a quote or technical discussion.

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RFQ SLA	72-hour response target for standard requests

From Chips to Connected Machines — Crown Mountain Solutions

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