

SEC403G/503G IoT Edge Computing

The SMANEX SEC403G/503G IoT Edge Computing Gateway is a 4G/5G programmable network device equipped with essential protocols and Python platform for customization. It supports the embedded firmware that provides a full bundle of functionalities to optimizing applications in smart energy, oil and gas, traffic, and industrial automation. Additionally, it provides various interfaces and connectivity such as Ethernet, RS232/485, DI/O, WiFi, and MQTT/HTTPS protocols, all compatible with AWS and Azure platforms that helps for time-to-market in cost-effective solutions.



Hardware Spec

Characteristics	CPU	Quad-core ARM Cortex-A7
	RAM	512MB
	Flash	32MB
	eMMC	8GB
Interfaces	Ethernet	1*WAN/LAN, 2*LAN 10/100/1000Mbps
	Serial Port	RS232*2, RS485*2
	Console	RS232
	USB	1*USB2.0
	SD socket	1*Micro SD slot, 32G Max
	SIM	2
	WiFi	IEEE802.11a/b/g/n/ac
	Antenna	3G/4G: SMA*2 5G: SMA*4
	GPS (optional)	SAM*1
Power	Power Input	DC12-48V, POE (optional)
	Consumption (operation)	350mA@12VDC (3/4G) 500mA@12VDC (5G)
	Consumption (stand-by)	260mA@12VDC
Ambient Temperature	Relative humidity	≤ 95% (no condensation)
	Operating Temperature	-40 ~ +75°C
	Storage Temperature	-40 ~ +85°C
Certificate	EMC	EN61000-4-2, level 4 EN61000-4-3, level 3 EN61000-4-4, level 4 EN61000-4-6, level 3 EN61000-4-8, >level 4

FEATURES

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Software Spec

Network	Connectivity	3G/4G/5G
	WAN	Static IP, DHCP, PPPoE
Network Protocols	IP Routing	Static Router, RIP, OSPF (optional)
	DDNS	DYDNS, CHANGEIP, 88ip, 3322
Security	Firewall	NAT, PAT, DMZ, Port Forwarding, Virtual Server
	VPN	IPSec VPN, L2TP, PPTP, GRE, OPENVPN
Reliability	Redundancy	Dual SIM
	Link On-line Detection	Keep Session
		ICMP, Internet Control Message Protocol
	Embedded Watch Dog	Hardware Watch Dog
Industrial Protocol	Collection Protocols	Modbus TCP Master、Modbus RTU Master
	Upload Protocols	Modbus TCP Client、MQTT Client
Development	Python	
Management	Configuration	Local or Remote HTTP, HTTPS, Telnet, SSH
		Parameter Backup and Recovery
		SNMP v1/v2/v3
		Configuration via cloud platform
	Upgrade	Local upgrade
		Remote upgrade via WEB/TFTP/FTP
		Upgrade via cloud server
	Log Management	Local and remote log management
	Reboot	Remote reboot with scheduling
	PING	Internet diagnosis

FEATURES