



Edge Computing Gateway

The OSMART SEC403G/503G IoT Edge Computing Gateway is a 4G/5G programmable network device equipped with essential protocols and I/O interfaces for customization. It supports the Linux platform, optimizing applications in solar energy, water treatment, oil and gas, traffic, and factory automation. Additionally, it provides various connectivity options, such as Ethernet, RS232/485, DI/O, WiFi, and MQTT/HTTPS protocols, all compatible with AWS and Azure platforms. When integrated with the Edge Computing Gateway, it facilitates 5G connectivity for eMBB (high bandwidth and speed), URLLC, or mMTC (smart city IoT network).

Hardware Spec

Characteristics	CPU	Quad-core ARM Cortex-A7
	RAM	512MB
	Flash	512MB
	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
Power	GPS (optional)	SAM*1
	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℃
	Storage Temperature	-40 ~ +85℃
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

Software Spec

Network	Connectivity	3G/4G/5G
	WAN	Static IP, DHCP, PPPoE
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
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	