

PRODUCT CATALOG

Chapter 5. Ethernet Switch and Industrial Switch

Raisecom offers a complete product line of Carrier Ethernet (CE) switches, aggregation and demarcation devices. The MEF-certified Carrier Ethernet 2.0 product line can be used to deliver E-Line, E-LAN, E-Tree, and E-Access services. These services can provide end-to-end SLA and QoS monitoring and full-service performance visibility as well as OAM, CFM, multi-CoS and other carrier-grade Ethernet protocols. Typically used to provide SLAs and service assurance for business services, CE2.0 products are vital for demarcation between service providers.

Based on mature Ethernet technologies, Industrial Ethernet products and solutions are gaining popularity in many vertical industries, utilities, transportation and public market sectors for their enhanced manageability, network redundancy, scalability, and comprehensive performance monitoring. In addition, the managed Industrial Ethernet technologies also assist with the integration of many systems over a scalable network across wired and wireless LANs and WANs.

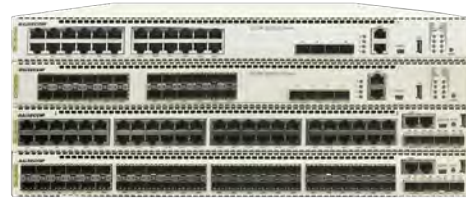
Gazelle series products are mainly designed for complicated application scenarios in the industry fields, such as smart grid, traffic control and surveillance systems. The selected models are specially adapted with advanced performance on QoS, network security, resiliency and reliability for a wide range of industrial applications. In addition, this series, complying with IEC 61580-3 and IEEE 1613, can ensure high standards of EMI immunity and error-free communication that is significant in power plants, substations, transmission lines and ammeter readings. Their hardened hardware design supports effective and efficient protection mechanism with sub 50ms switchover protection by ITU-T G.8032 ERPS, increasing network reliability and reducing the cabling and wiring complexity.

L2/L3 Aggregation Switch

ISCOM S5600-EI Series

The ISCOM S5600-EI series switches are the new-generation and high-efficiency Layer 2/3 Gigabit Ethernet switches. This series adopt a new-generation switching software platform based on Linux OS and flexible hardware design, such as ISCOM S5600-28C-EI (24x1GE RJ45 + 4x1/10GE SFP+), ISCOM S5600-28C-EI-24F (24x1GE SFP + 4x1/10GE SFP+), ISCOM S5600-52C-EI (48x1GE RJ45 + 4x1/10GE SFP+), ISCOM S5600-52C-EI-48F (48x1GE SFP + 4x1/10GE SFP+), and supporting one slot for extension cards on the rear panel. There are 4 different extension cards to choose from, 8x10GE SFP+, 8x1GE SFP, 8x1GE RJ45 and 2x40GE QSFP+ ports.

The ISCOM S5600-EI series feature high reliability, high security, easy maintenance, simple management. They adopt advanced OAM protocols, meeting the carrier's requirements for MEF CE2.0 standards to deliver EPL, EVPL, EP-LAN, EVP-LAN and E-Access services. The ISCOM S5600-EI series also support state-of-the-art IPv4/IPv6 unicast/multicast protocols and Intelligent Stacking Framework (ISF) technology. With these features, they can be widely applied to various networking scenarios. For example, they can function as edge devices on the MAN, aggregation switches on a campus or enterprise network, or gigabit access in the Internet/Enterprise Data Center (IDC/EDC).



ISCOM S5600-EI Series

FEATURES

- High capacity, high density
- High reliability and protection
 - STP, RSTP, MSTP
 - LACP
 - ITU-T G.8032 with fault switching time less than 50ms (the fault detection can be based on physical interface and CFM CC)
 - Dual-system and dual-configuration-file redundancy backup
- ISF Stacking (not compatible with L3 features)
 - Up to 2 devices
 - Liner connection of ring connection
 - Uplink connect
- OAM and SLA
 - Point-to-point: IEEE802.3ah
 - End-to-end: hardware IEEE802.1ag to implement 3.3ms CC monitoring
 - Rich SLA, ITU-T Y.1731
 - MEF CE2.0 certified E-Line, E-LAN, E-TREE and E-Access services
 - Hardware BFD
- Various security guarantees
 - Various AAA mode such as RADIUS and TACACS+
 - IEEE 802.1x authentication
 - Port secure MAC and limits on the MAC addresses to stop attacks from illegal users
 - Various ACL policies to control packet forwarding flexibly
 - DHCPv4/v6 Snooping and Option 82/18/37 to avoid DHCP attacks
 - DAI and IP Source Guard based on the DHCP binding table to prevent ARP flooding attacks and IP attacks
 - Broadcast storm and loop detection to ensure the stability of the network
 - Lightning protection for the power supply and all the Ethernet electric interfaces and protect hardware investment of the customer
- Fine tunable QoS
 - Rich scheduling policies such as SP, WRR, or SP + WRR, DRR, or SP+DRR
 - Dual-bucket three-color CAR based on the traffic and H-CAR
 - Statistics based on traffic
- IPv6 Ready
 - IPv6 management
 - IPv6 ACL
 - DHCPv6 Snooping, RA Snooping and Option18/37 to ensure the network security
 - MLD Snooping to ensure the IPv6 multicast monitoring
- Advanced management system
 - SNMP, RMON, Telnet, SSH management interface to increase the usability of the device
 - Automatic configuration and loading. The administrator can put the configuration file set in advance to the TFTP server for the automatic loading of the switch while it is booting, thus simplifying the management and maintenance

Mode	ISCOM S5600-28C-EI	ISCOM S5600-28C-EI-24F	ISCOM S5600-52C-EI	ISCOM S5600-52C-EI-48F
Port Number & Type	24x10/100/1000 RJ45 + 4 x 1G/10G SFP+	24x100/1000 SFP + 4 x 1G/10G SFP+	48x10/100/1000 RJ45 + 4 x 1G/10G SFP+	48x100/1000 SFP + 4 x 1G/10G SFP+
Extension Card	One slot for the extension card: 2x40GE QSFP+, 8x10GE SFP+, 8x1GE SFP, 8x1G RJ45			
Management interface	1 SNMP interface (RJ45) 2 console interface: 1 RJ45 console and 1 mini-USB console (high priority) 1 USB (reserved, non-function now)			
Dimension(mm) (L) x (W) x (H)	1U, 19" (444 x 420 x 44.4)			
Device Weight (kg)	5.4kg (no PSU)	5.3kg (no PSU)	5.6kg (no PSU)	5.5kg (no PSU)
Power Supplies Weight(kg)	0.8kg for each PSU			
Power Supplies	hot-swappable dual power supplies: dual AC /dual DC/AC+DC also support single power supply: AC/DC			
Voltage Scope	AC 220V(100-240V), DC 48V(-36~-72V)			
MAX Device Power (Single/Daul Power supplies) (W)	39/43	59/63	51/56	86/90
MAX Card Power (W)	2x40GE QSFP+ card: 14W 8x10G SFP+ card: 16.6W 8x1GE SFP card: 8W 8x1G RJ45 card: 5.3W			
FAN Noise	< 60 dBA			
Working Temperature	0-50°C			
Relevant Humidity	10%~90% RH (non-condensing)			
Anti-thunder	cable port anti-thunder CM 6kv power anti-thunder AC: DM 6kv / CM 6kv DC: DM 1kv / DM 2kv			
Jumbo Frame	10KB			
Buffer	4MB			
Memory (SRAM)	1GB			
Flash	1GB			
Switch Capacity (Gbps)	128 + 160 (with 40G expansion card)		176 + 160 (with 40G expansion card)	
Packets Switch Rate (Mpps)	95 + 121 (with 40G expansion card)		131 + 121 (with 40G expansion card)	

L2 Access Switch

ISCOM2600G(-PWR) Series

The ISCOM2600G(-PWR) series switches is the new-generation and cost-effective Layer 2 Gigabit Ethernet switches. It adopts a route switching software platform based on the Linux OS, and a high-performance hardware platform. With multiple interface types, such as ISCOM2608G-2GE/-PWR, ISCOM2600G-28X/-PWR, ISCOM2600G-28X-24F, ISCOM2600G-52X, it can provide flexible networking modes.

Featuring high reliability, high access security guarantee, easy administration, and simple management, it can meet carriers' requirements. In addition, it supports static route, ready IPv6, intelligent PoE, and so on. Therefore, it is widely adopted, such as access device of enterprises, campuses, residences, and CDN.



ISCOM2600G(-PWR) Series

FEATURES

- High capacity, high density
- High reliability and protection
 - STP, RSTP, MSTP, and multi-RSTP
 - LACP and MLACP
 - ITU-T G.8032 with fault switching time less than 50ms
 - Dual-system and dual-configuration-file redundancy backup
- Various security guarantees
 - Various AAA mode such as RADIUS and TACACS+
 - IEEE 802.1x authentication
 - Port secure MAC and limits on the MAC addresses to stop attacks from illegal users
 - Various ACL policies to control packet forwarding flexibly
 - DHCPv4/v6 Snooping and Option 82/18/37 to avoid DHCP attacks
 - DAI and IP Source Guard based on the DHCP binding table to prevent ARP flooding attacks and IP attacks
 - Broadcast storm and loop detection to ensure the stability of the network
 - Lightning protection for the power supply and all the Ethernet electric interfaces and protect hardware investment of the customer
- Fine tunable QoS
 - Rich scheduling policy such as SP, WRR, or SP+WRR, DRR, or SP+DRR
 - Dual-bucket three-color CAR based on the traffic and H-CAR
 - Statistics based on traffic
- IPv6 Ready
 - IPv6 management
 - IPv6 ACL
 - DHCPv6 Snooping, RA Snooping and Option18/37 to ensure the network security
 - MLD Snooping to ensure the IPv6 multicast monitoring
- Smart PoE
 - IEEE802.3af/IEEE802.3at standard
 - PD alive-check
 - Configuring reboot the PD at a specific time each week
 - Supplying power during specified time interval
- Advanced management system
 - SNMP, RMON, Telnet, SSH and provide friendly WEB management interface to increase the usability of the device
 - Automatic configuration and loading. The administrator can put the configuration file set in advance to the TFTP server for the automatic loading of the switch while it is booting, thus simplifying the management and maintenance

Model	ISCOM2608G-2GE/-PWR	ISCOM2600G-28X/-PWR ISCOM2600G-28X-24F	ISCOM2600G-52X
Port type	Uplink: 2 x GE SFP Downlink: 8 x GE RJ45	Uplink: 4 x GE/10G SFP+ Downlink: 24 x GE RJ45 or 24 x GE SFP	Uplink: 4 x GE/10G SFP+ Downlink: 48 x GE RJ45
Management interface	1 Console interface (ISCOM2608G-2GE/-PWR has no SNMP port)		
Switching capacity	20Gbit/s	56Gbit/s	104Gbit/s
Packets switch rate	14.88Mpps	41.66Mpps	77.38Mpps
Dimension(mm)	260(L) × 130(W) × 43.6(H) PoE: 300(L) × 220(W) × 43.6(H)	440(L) × 220(W) × 43.6(H) PoE: 440(L) × 300(W) × 43.6(H)	440(L) × 300(W) × 43.6(H)
Weight(kg)	<1.08 PoE: <2.5	< 2.6 PoE: <4.95	< 4.3
Max Power consumption	< 20w PoE: <150w, 124w power supply	< 25w PoE: <440w, 370w power supply	< 45w
Hardware	Power: single AC/DC (except ISCOM2648G-4C: single or dual power, AC/DC/AC-D/DC-D) Fan: no fan design (except ISCOM2648G-4C and PoE) Working temperature: 0-50°C Relevant humidity: 10%-90% RH (non-condensing) Voltage range: AC 220V(100-240V), DC 48V(-36--72V) anti-thunder (cable port): 6kV MTU: 9216B		

L2 DIN-Rail Unmanaged Industrial Switch

ISCOM1000-I Series

The ISCOM1000-I DIN-Rail switches consist of unmanaged industrial switches with a wide selection of port numbers, speed, and media types. ISCOM1000-I series are designed for industrial automation and control in industrial field. This DIN-Rail switches series can operate stably for a long time in harsh environments which are IP40 rated, support dual power supplies input, adopt low-power fanless cooling technology with a wide operating temperature ranging from - 40 to 75°C, and ensure up to 35-year Mean Time Between Failures (MTBF) and a 3-year warranty.



ISCOM1000-I-FX-FE ISCOM1000-I-FX-7FE ISCOM1000-I-8FE

ISCOM1000-I Series Unmanaged L2 DIN-Rail

P/N	ISCOM 1000-I-FX-FE-x-DCW24	ISCOM 1000-I-FX-4FE-x-DCW24	ISCOM 1000-I-5FE-DCW24	ISCOM 1000-I-FX-7FE-x-DCW24	ISCOM 1000-I-8FE-DCW24
Port number & Type	1x100M M/S1/S2 fiber 1x10/100M RJ45	1x100M M/S1/S2 fiber 4x10/100M RJ45	5x10/100M RJ45	1x100M M/S1/S2 fiber 7x10/100M RJ45	8x10/100M RJ45
Dimension (mm)	32(W)x100(D)x120(H)	32(W)x100(D)x120(H)	32(W)x100(D)x120(H)	56(W)x105(D)x135(H)	56(W)x105(D)x135(H)
Weight (kg)	0.43	0.56	0.56	0.68	0.68
Power Supply	DC: Dual inputs				
Voltage Scope	DC: 12V/24VDC (9~36VDC)				
MAX power (W)	2.5	4	4	5.5	5.5
Jumbo Frame	10K bytes				
Switch Capacity (Mbps)	400	1000	1000	1600	1600
Working Temperature	-40°C to 75°C				
Protection Level	IP40				

L2 DIN-Rail Managed Industrial Switch

Gazelle S1000i-LI Series, Gazelle S1010i-GL Series, Gazelle S1020i-GL Series, Gazelle 1020i-LI Series, Gazelle S1020i-PWH/PWR-GL Series

The Gazelle DIN-Rail switches consist of compact and manageable industrial switches with a wide selection of port numbers, speed and media types. Gazelle S1010i-GL and Gazelle S1020i-GL series are designed for Automatic Control System (ACS) in industrial field, while Gazelle S1000i-Li and Gazelle S1020i-Li series are cost-efficient solutions designed to meet the requirements of safe city, smart transportation, and industrial data backhaul. In addition, the Gazelle S1020i-PWR-GL series and the Gazelle S1020i-PWH-GL Series provide port with standard IEEE802.3bt, IEEE802.3at, and IEEE802.1af support. All these DIN-Rail switches enable delivery of reliable, continuous, and manageable services by complying with some industrial regulations and standards, which can operate stably for a long time in harsh environments. Network redundancy and reliability are guaranteed with LACP, G.8032 ERPS (<50ms switch-over time). All these DIN-Rail switches are IP40 rated, support dual power supplies input, adopt low-power fanless cooling technology with a wide operating temperature ranging from - 40 to 75°C, and ensure up to 35-year Mean Time Between Failures (MTBF) and a 3-year warranty. They can support wall mounting and also rack mounting. Additionally, the Gazelle S1000i series, the Gazelle S1010i-GL Series, Gazelle S1020i-PWH-GL Series and the Gazelle S1020i(-PWR)-GL Series are designed to satisfy the requirements of data transmission in areas of smart grid (IEC 61850-3, IEEE 1613), transportation (EN50121-4), energy and industrial automation.



Gazelle S1000i-LI Series



Gazelle S1020i-GL Series



Gazelle S1020i-PWH-GL Series



Gazelle S1020i-LI Series

Gazelle S1000i-LI Series Cost-effective L2 GE DIN-Rail

P/N	Gazelle S 1000i-2GF-8GE-LI	Gazelle S 1000i-2GF-4GE-LI	Gazelle S 1000i-4GF-8GE-LI
Interfaces	2x100/1000M SFP 8x10/100/1000M RJ45	2x100/1000M SFP 4x10/100/1000M RJ45	4x100/1000M SFP 8x10/100/1000M RJ45
Dimension(mm)	80(W) × 121(D) × 150(H)	56(W) × 105(D) × 135(H)	80(W) × 121(D) × 150(H)
Weight(kg)	1	1	1
Power Supply	AC: single input		
Voltage Scope	AC: 110V/220VAC (100~240VAC)		
MAX power(W)	7		11
Jumbo Frame	10K bytes		
Switch Capacity	20	12	24
Working Temperature	-40°C to 75°C		
Protection Level	IP40		

Gazelle S1010i-GL/S1020i-GL Series L2 GE DIN-Rail

P/N	Gazelle S1010i-GF-2GE-GL	Gazelle S1020i-2GF-4GE--GL	Gazelle S1020i-4GF-8GE-GL
Interfaces	1x100/1000M SFP 2x10/100/1000M RJ45	2x100/1000M SFP 4x10/100/1000M RJ45	4x100/1000M SFP 8x10/100/1000M RJ45
Dimension(mm)	56(W) × 105(D) × 135(H)		80(W) × 130(D) × 150(H)
Weight(kg)	0.7		1.0
Power Supply	AC: single input DCW24: dual input DCW48: dual input	AC: single input DCW48: dual input	
Voltage Scope	AC: 110V/220VAC (100~240VAC) & 220VDC (170~300VDC) DCW24: 12V/24V(10~36VDC) DCW48: 24V/48V(20~72VDC)	AC: 110V/220VAC (100~240VAC) 220VDC (170~300VDC) DCW48: 24V/48V(20~72VDC)	
MAX power(W)	4	7	12
Jumbo Frame	10K bytes		
Switch Capacity	6	12	24
Working Temperature	-40°C to 75°C		
Protection Level	IP40		
Compliance	CE, UL/FCC IEC 61850-3, IEEE 1613, EN50121-4		

Gazelle S1020i-LI Series L2 GE DIN-Rail

P/N	Gazelle S1020i-2GF-4GE-LI	Gazelle S1020i-2GF-8GE-LI	Gazelle S1020i-4GF-8GE-LI
Interfaces	2x1000M SFP 4x10/100/1000M RJ45	2x1000M SFP 8x10/100/1000M RJ45	4x1000M SFP 8x10/100/1000M RJ45
Dimension(mm)	56(W) × 105(D) × 135(H)	80(W) × 130(D) × 150(H)	
Weight(kg)	0.7	1.0	1.1
Power Supply	DCW24: dual input		
Voltage Scope	DCW24: 12/24V(9~36VDC)		
MAX power(W)	7	8	12
Jumbo Frame	10K bytes		
Switch Capacity (Gbps)	12	20	24
Working Temperature	-40°C to 75°C		
Protection Level	IP40		

Gazelle S1020i-PWH-GL/PWR-GL Series L2 GE PoE DIN-Rail

P/N	Gazelle S1020i-2GF-4GE-PWH-GL	Gazelle S1020i-4GF-8GE-PWH-GL	Gazelle S1020i-2GF-8GE-PWR-GL
Interfaces	2x100/1000M SFP 4x10/100/1000M RJ45 PoE	4x100/1000M SFP 8 x10/100/1000M RJ45 PoE	2x1000M SFP 8x10/100/1000M RJ45 PoE
Dimension(mm)	80(W) x 130(D) x 150(H)	98(W) x 155(D) x 177(H)	80(W) × 130(D) × 150(H)
Weight(kg)	0.9	1.5	0.9
Power Supply	DC48: dual input		
Voltage Scope	DCW48: 48V(44~57VDC)		
MAX power(W)	10+180	15+360	12+240
MAX POE power(W)	180	360	240
Jumbo Frame	9K bytes		10K bytes
Switch Capacity (Gbps)	12	24	20
Working Temperature	-40°C to 75°C		
Protection Level	IP40		
Compliance	CE, UL/FCC EN 50121-4		

L2/L3 19" Rack-Mounted Industrial Switch

Gazelle S3028i-LF Series, Gazelle S3028i-MGL Series, ISCOM3052G(K)

The Gazelle 19" rack-mounted switches are designed to satisfy the broadband backbone transportation and aggregation requirements under rigorous industrial and business conditions. The products support a flexible electrical and SFP optical interface with combinations of up to 4 x 10GE/GE uplinks and 48 x GE downlinks. The Gazelle S3028i-LF series are cost-effective 1U rack-mount industrial switches with cost efficiency. This series switches are specially designed to meet requirements for industrial automation control systems, and have a very flexible port portfolio. The Gazelle S3028i-PWH-MGL adopts a standard 1U chassis and offers high-density interfaces, including four 1/10 Gbit/s uplink optical interfaces, max twenty-four 100/1000 Mbit/s auto-negotiation downlink optical interfaces, and Max sixteen 1000 Mbit/s PoE interfaces. The Gazelle S3028i-MGL enables maximum flexibility when configured, in rings (intersect ring and tangent ring topologies), ensuring sub-50ms switchover time. Enhanced security is provided by supporting IEEE802.1x, RADIUS and other authentication methods. The ISCOM3052G GE modular NMS-managed Layer 3 industrial switch is specially designed for the Automatic Control System (ACS) in the industrial field, which can operate stably for a long time in harsh environments. The ISCOM3052G adopts a fully modular design, provides high-density interfaces, and is configurable and scalable. It supports complete Layer 3 routing protocols, delivers industry-leading ring network technologies, supports multiple industrial redundant ring network protocols. All these Rack-Mountable series Switches can sustain high performance in extreme environments. They also claim a fanless design, as well as IP40 dust protection housing, a redundant power supply, and are compliant with IEC 61850-3, IEEE 1613, and EN50121-4. All these switches adopt low-power fanless cooling technology with a wide operating temperature ranging from - 40 to 85°C, and ensure up to 35-year Mean Time Between Failures (MTBF) and a 3-year warranty.



Gazelle S3028i-MGL



Gazelle S3028i-LF Series



ISCOM3052G(K)

Gazelle S3028i-LF Series Cost-Effective L2 GE Rack-Mounted

P/N	Gazelle S3028i-4GF-24GE-LF	Gazelle S3028i-4GX-16GE8GF-LF	Gazelle S3028i-4X-24FE-LF
Interfaces	4x1GE SFP 24x10/100/1000M RJ45	4x1G Combo 16x10/100/1000M RJ45 + 8x1GE SFP	4x100M fixed fiber ports 24x10/100M RJ45
Dimension (mm)	1U, 19" 440(L) x 300(D) x 43.6(H)		
Weight (kg)	2		
Power Supply	HIP/D, HIP/S, DC/S or DC/D		
MAX power (W)	30		
Voltage Scope	HIP: 110/220VAC (100~240VAC) 110/220VDC (88~300 VDC) DC: 24/48VDC (20~72VDC)		
Jumbo Frame	10K bytes		
Switch Capacity (Gbps)	56		5.6
Working Temperature	-40°C to 75°C		
Protection Level	IP40		
Compliance	CE, UL/FCC		

Gazelle S3028i-MGL Series L2 GE & ISCOM3052G(K) L3 GE Rack-Mounted

P/N	Gazelle S3028i -4XF-16GE-PWH-MGL	Gazelle S3028i -4XF-16GE-MGL	Gazelle S3028i -4XF-16GF-MGL	ISCOM3052G(K)
Interfaces	4x10GE SFP+ 4x1GE combo + 12x10/100/1000M RJ45 (POE+/POE++) 1 expansion slot	4x10GE SFP+ 4x1GE combo + 12x10/100/1000M RJ45 1 expansion slot	4x10GE SFP+ 4x1GE combo + 12x100/1000M SFP 1 expansion slot	4x10GE SFP+ 12x1GE combo + 12x10/100/1000M RJ45 3 expansion slots
Card	Expansion cards: 8GE: 8x10/100/1000M RJ45; 8GF: 8x100/1000M SFP			
Dimension (mm)	1U, 19" 440(L) x 320(D) x 44(H)			2U, 19" 440(L) x 320(D) x 88(H)
Weight (kg)	2.1			9.1
Power Supply	HIP/D, HIP/S, DC/S or DC/D			AC/D or AC/S
MAX power (W)	50+480		50	49
MAX POE power (W)	480		N/A	N/A
Voltage Scope	HIP: 110/220VAC (100~240VAC) & 110/220VDC (88~300 VDC) DC: 24/48VDC (20~72VDC)			AC: 110/220VAC (100~240VAC) & 110/220VDC (170~300 VDC)
Jumbo Frame	10K bytes			
Switch Capacity (Gbps)	128			176
Working Temperature	-40°C to 75°C			
Protection Level	IP40			
Compliance	CE, UL/FCC IEC 61850-3, IEEE 1613, EN50121-4			

IoT Industrial Gateway

Gazelle G512i, Gazelle G532i

The Gazelle G series industrial IoT gateway transmits data from many industrial devices in different areas to the remote cloud center for device monitoring, device diagnosis, program maintenance, and fault alarm, providing users with a simple and reliable remote transmission solution of industrial Internet data for industrial mutual control, device diagnosis, program maintenance and fault alarm.



Gazelle G512i



Gazelle G532i

FEATURES

- High industrial protection level, ensuring long-term and stable operation of the device
- Offline cache of data, up to 1-month data
- Multiple network modes, supporting 2G/3G/4G networks of carriers and self-built Lora networks
- Multiple pre-configured cloud access capabilities, supporting PaaS networking
- Optional CAN expansion module, easily expanding various interfaces
- Container technology, facilitating secondary development for customers

Feature	Sub-feature	Gazelle G512i	Gazelle G532i
Hardware performance	CPU	ARM Cortex-A7 single-core 528Mhz-696Mhz	ARM Cortex-A53 dual-core 1.2Ghz
	Memory	512MB DDR3L	1GB DDR3L
	FLASH	1GB Nand flash	8GB eMMC
Interfaces	Serial interface	2*4-pin RS485	3*4-pin RS485 1 *4-pin RS232
	Ethernet interface	2 x 100 Mbit/s RJ45	WAN/LAN: 4x10/100/1000M RJ45 LAN: 4x10/100/1000M RJ45 + 2x100/1000M SFP
	POE	N/A	802.3af/at/bt, up to120W
	Wireless	802.11n 1x1 150Mbps	5G: supports 5G NR NR/LTE-TDD/LTE-FDD/WCDMA systems. Zigbee
	CPU	ARM Cortex-A7 single-core 528Mhz-696Mhz	ARM Cortex-A53 dual-core 1.2Ghz
	4G/5G	LTE-FDD Band 1/3/5/7/8/20/28, LTE-TDD Band 38/40, UMTS Band 1/5/8	5G Band: N1/N2/N3/N5/N7/N8/N12/N20/N25/N28/N40/N41/N66/N71/N77/N78/N79 LTE-FDD Band: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD Band: B34/B38/B39/B40/B41/B42/B43/B48 LTE DL 4x4 MIMO: B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66 UMTS Band: B1/B2/B3/B4/B5/B8
	SIM card	Mirco SIM card	Dual Mirco SIM card
	TF card	Up to 128 GB	N/A
Power Supply	Power interface	24 VDC	24 VDC
	Power Consumption	7W	30W+POE 120W
Dimension	Dimension(mm)	56(W) × 105(D) × 135(H)	80(W) × 130(W) × 150(H)
	Antenna	2 X SMA; 1 X RSMA	6 X SMA; 1 X RSMA
Working Environment	Protection Level	IP40	IP40
	Working Temperature	-40°C to 70°C	-25°C to 70°C
	Storage temperature	-40°C to 85°C	-40°C to 85°C
	Working humidity	5-95% RH (non-condensing)	5-95% RH (non-condensing)
Compliance	CE, UL/FCC		