


# Huawei AR631I-LTE4EA Data Sheet

Huawei AR631I-LTE4EA is a fixed-form-factor gateway designed for network communication in challenging industrial environments with extreme temperature, humidity, and electromagnetic interference. With stand-out routing features, AR631I-LTE4EA best suits industrial routing scenarios.

## Overview

Huawei AR631I-LTE4EA is purpose-built for industrial gateway scenarios. By using ARM-based multi-core processors and a non-blocking switching architecture, the AR631I-LTE4EA integrates diverse functions such as routing, switching, VPN, and security. This makes it an ideal choice for enterprises looking for high-performance network devices in industrial scenarios.

### Appearance of Huawei AR631I-LTE4EA

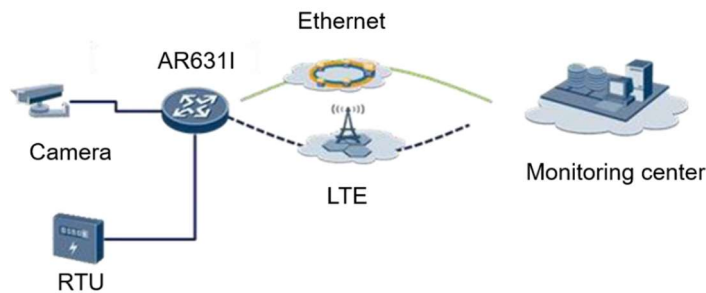
Product Name	Overview	Application Scenario
 <p><b>AR631I-LTE4EA</b></p>	<p>AR631I-LTE4EA router:</p> <ul style="list-style-type: none"> <li>Industrial-grade routing gateway</li> <li>Fan-free and dual-power supply redundancy design</li> <li>ARM quad-core CPU, 2 GB memory, 1 GB flash</li> </ul>	<p>Industrial gateway scenarios</p>

## Features and Highlights

Service Requirement	Features and Benefits
High performance	<ul style="list-style-type: none"> <li>ARM-based multi-core processors and non-blocking switching architecture</li> <li>Industry-leading performance, offering low latency for mission-critical services</li> </ul>
High reliability	<ul style="list-style-type: none"> <li>Link backup for enterprise services, enhancing service access reliability</li> <li>Fault detection and determination in milliseconds, minimizing the service interruption time</li> </ul>
Industrial-grade design	<ul style="list-style-type: none"> <li>Fan-free design, wide operating temperature range from <math>-40^{\circ}\text{C}</math> to <math>+70^{\circ}\text{C}</math></li> <li>Resilient to strong magnetic interference</li> <li>IEC 61850-3/IEEE 1613 compliant</li> <li>Dual power supplies for redundancy</li> </ul>
Easy O&M	<ul style="list-style-type: none"> <li>Multiple management methods such as SNMP and web, simplifying network deployment and reducing OPEX</li> <li>USB-based deployment</li> </ul>
Multi-service convergence	Integration of extensive functions such as routing, switching, VPN, and security, enabling diversified enterprise services, saving space, and reducing TCO
High security	Built-in firewall and multiple VPN technologies, providing comprehensive security protection capabilities

## Typical Application Scenarios

### Industrial Backhaul



Huawei AR631I-LTE4EA can be deployed to provide 4G/3G wireless backhaul for cameras in areas where conventional wired coverage is difficult. It can also offer 4G backhaul in industrial manufacturing scenarios. Due to highly reliable industrial design, AR631I-LTE4EA ensures secure and reliable network communication in challenging environments with extreme temperature, humidity, and electromagnetic interference.

# Product Specifications

Specification	AR631I-LTE4EA		
Hardware Parameters			
Case	Die-casting		
Processor	ARM quad-core A53, 1 GHz		
DDR	2 GB, DDR4		
Flash	1 GB, SLC NAND		
Fixed Ethernet port	<ul style="list-style-type: none"><li>3 x GE electrical ports, 10/100/1000 Mbit/s auto-sensing</li><li>2 x GE combo ports</li></ul>		
Fixed serial port	2 x RS485 or RS232 ports (isolated, switching between RS485 and RS232 through software)		
Alarm port	<ul style="list-style-type: none"><li>One DI port (passive contact input)</li><li>One DO port (industrial terminal, supporting normally open and normally closed)</li></ul>		
USB 3.0 port	1		
Console port	1		
SIM card	Micro-SIM		
RTC/Overtemperature alarm	Supported		
Reset/Configuration	Reset/Configuration button: used to manually restore factory default settings (hold down for at least 5 seconds) or to reset the router (hold down for less than 5 seconds).		
LED indicators	2 x PWR, 1 x SIM, 1 x GPS, 1 x 2G, 1 x 3G		
		2G LED	3G LED
	2G	√	-
	3G	-	√
	4G/LTE	√	√

Specification	AR631I-LTE4EA
	1 x SYS, 3 x RSSI
Power supply	Dual DC power supplies: 9.6 V to 60 V (industrial terminal)
Dimensions (H x W x D)	44 mm x 150 mm x 133 mm
Net weight	1.1 kg
Typical power consumption	< 8.5 W (excluding optical modules)
Installation mode	DIN/Wall-mounted
Storage temperature	–40°C to +85°C
Operating temperature	–40°C to +70°C
Operating humidity	5% to 95% (non-condensing)
IP rating	IP40
EMC standards compliance	<ul style="list-style-type: none"> <li>• IEEE 1613</li> <li>• IEC 61850-3</li> <li>• EN 61000-6-5 (2009 + 2013)</li> </ul>
Safety regulations	<ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• IEC 61850-3</li> </ul>
Certification mark	CE
Software Parameters	
Basic features	<ul style="list-style-type: none"> <li>• TCP, UDP, ICMP, IPv4, and IPv6</li> <li>• DHCP server/client/relay, DNS client, dynamic DNS</li> <li>• NAT, and NAT ALG</li> </ul>
LAN	<ul style="list-style-type: none"> <li>• IEEE 802.1p, IEEE 802.1Q, and IEEE 802.3</li> <li>• VLAN management and MAC address management</li> <li>• STP</li> </ul>
Unicast routing	<ul style="list-style-type: none"> <li>• Routing policy and static routing</li> <li>• RIP, IS-IS, OSPF, and BGP</li> <li>• RIPvng, IS-ISv6, OSPFv3, and BGP4+</li> </ul>

Specification	AR631I-LTE4EA
VPN	<ul style="list-style-type: none"> <li>• MCE</li> <li>• GRE tunneling</li> <li>• IPsec tunneling</li> <li>• L2TP/L2TPv3 VPN</li> <li>• Ethernet over GRE</li> <li>• SD-WAN ready</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• MQC</li> <li>• Traffic policing (CAR)</li> <li>• Traffic shaping</li> <li>• PQ, WFQ, and PQ+WFQ scheduling</li> <li>• WRED and tail drop for congestion avoidance</li> </ul>
Security	<ul style="list-style-type: none"> <li>• AAA authentication, RADIUS authentication, HWTACACS authentication, 802.1X authentication, MAC address authentication, MAC bypass authentication, certificate authentication, and PKI management</li> <li>• ACL</li> <li>• Firewall, packet filtering, and firewall logging</li> <li>• Defense against DoS attacks, TCP SYN flood attacks, UDP flood attacks, heavy-traffic attacks to prevent CPU attacks</li> <li>• Ping and tracer</li> </ul>
WAN failover/failback	<ul style="list-style-type: none"> <li>• Interface backup: achieving instantaneous failover/failback of 4G/3G links, ensuring service continuity on the wired network</li> <li>• Dual fed and selective receiving: implemented by replicating data packets on the transmit end, preventing packet loss and ensuring high-reliability data communication</li> </ul>
Configuration maintenance	<ul style="list-style-type: none"> <li>• Web UI (HTTPS)</li> <li>• CLI, Telnet, and SSH (v1/v2) terminal</li> <li>• SNMPv1, SNMPv2c, and SNMPv3</li> <li>• FTP and TFTP</li> <li>• BootROM upgrade and remote upgrade</li> <li>• User operation logs</li> <li>• Network Quality Analysis (NQA)</li> <li>• System status monitoring</li> <li>• Synchronization of the system clock time from the router to NTP clients</li> </ul>
Firmware management	Firmware upgrade locally over a LAN or remotely through HTTPS or SNMP
Event alarm	<ul style="list-style-type: none"> <li>• System logs</li> <li>• SNMP traps</li> </ul>

## Power Specifications

60 W Power Supply



Specification	Power Adapter
Power specifications	<p>Power input (integrated high-voltage AC/DC):</p> <ul style="list-style-type: none"> <li>• 88 V DC to 300 V DC (industrial terminal)</li> <li>• 90 V AC to 264 V AC (industrial terminal)</li> </ul> <p>Power output:</p> <ul style="list-style-type: none"> <li>• 12 V DC (industrial terminal)</li> </ul>
Power	60 W
Weight	0.9 kg
Dimensions	150 mm x 40 mm x 133 mm
Storage temperature	−40°C to +85°C
Installation	Installed on a DIN rail
Operating temperature	−40°C to +70°C
Operating humidity	5% to 95% (non-condensing)

## Ordering Information

Model	Ordering Information
Device	
AR631I-LTE4EA	Router,AR631I-LTE4EA 2*RS485(or 2*RS232),1*DI/DO,3*GE (10/100/1000M RJ45),2*GE COMBO,1*LTE (dual SIM),1*USB,GPS/GLONASS/BDS,9.6-60VDC
Power Supply	
PAC-60WB	Function Module,AC Adapter,PAC-60WB,60W AC Power Module(No Fan) <i>Note: This power supply is not required when the iCUBE-PLC100 is configured.</i>
4G Antenna	
ASMAM0006	Omni-directional Antenna,698MHz-960MHz/1710MHz-2690MHz,1.0dBi(698MHz-960MHz)&3dBi(1710MHz-2690MHz),10W,SMA-J
Installation Materials	
DINRAIL002	Machining Small Parts,DKBA61542001.ASM,null,Cutting,mounting base

## More Information


For more information, visit <https://e.huawei.com/en/> or contact us in the following ways:

- Global service hotline: <https://e.huawei.com/en/service-hotline-query>
- Logging in to the Huawei enterprise technical support website: <https://support.huawei.com/enterprise/en/index.html>
- Sending an email to the customer service mailbox: [Support\\_e@huawei.com](mailto:Support_e@huawei.com)

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