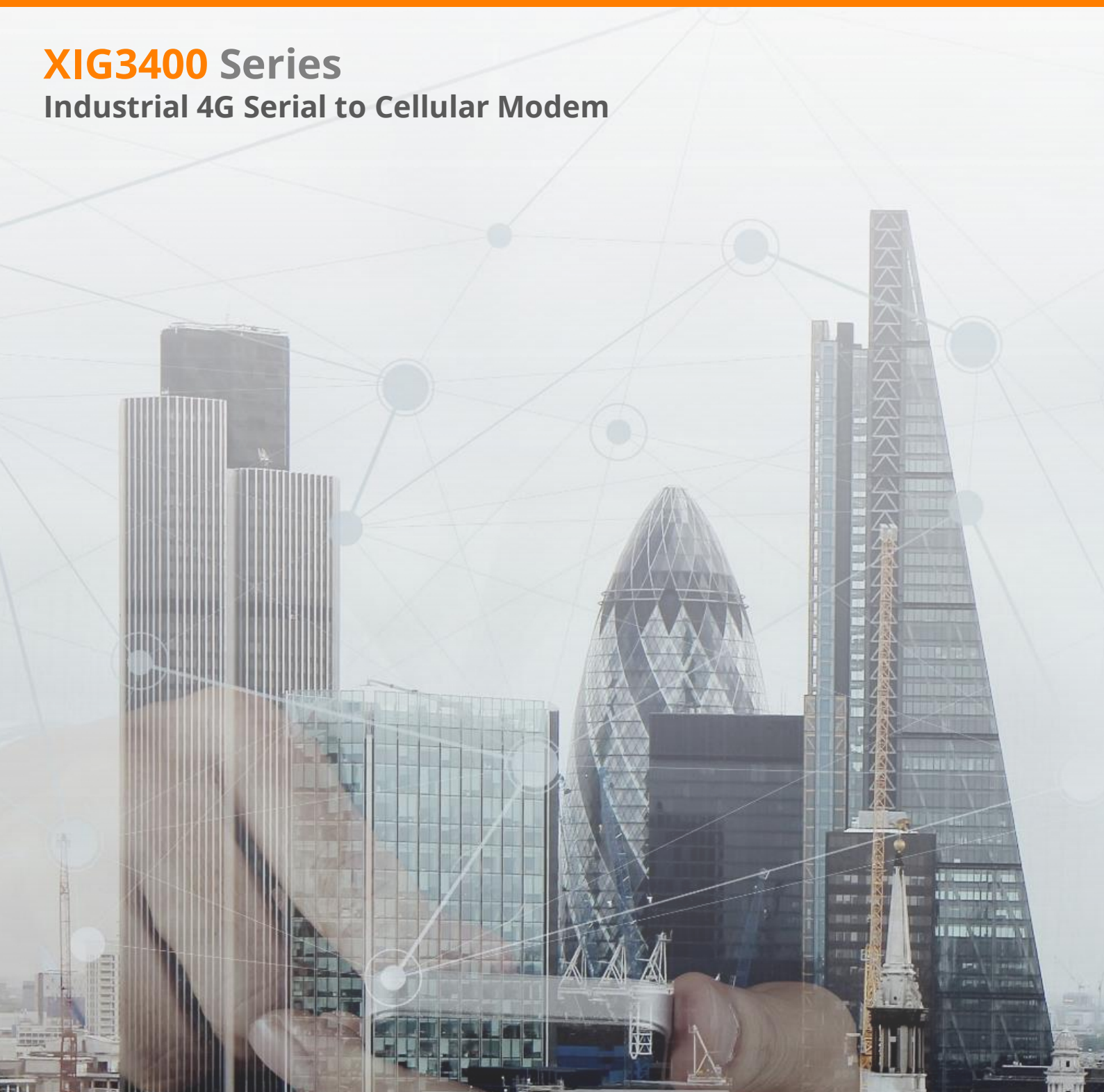


RELIABLE SECURE CONNECTIVITY

XIG3400 Series
Industrial 4G Serial to Cellular Modem





XIG3400 Series

Industrial 4G Serial to Cellular Modem



FEATURE HIGHLIGHTS

- Long proven in large-scale applications
- 4G/3G/GPRS, Cat4 cellular gateway networks
- High-reliability design; self-recovery and link-redundancy to ensure continuity of data transmission
- Fully industrial- grade; wide temperature -40 °C~70 °C and low power +5~35V DC ready for challenging environments
- Hardware and software watchdog and multi-layer link detection mechanism, ensures high divide availability and reliability
- Supports industrial protocol conversion; Modbus RTU/TCP to solve interoperability problems for users



PRODUCT DESCRIPTION

The XIG3400 series industrial grade wireless data terminal uses cellular network as the bearer network to provide wireless data transmission channel over TCP/ IP. It functionally completes wireless data communications between remote control station serial devices and the central control system, to enable remote control of industrial field sites.

The XIG3400 series is small in size, operates between -40°C ~ 70°C and supports +5 ~ 35V DC wide voltage input, can provide stable data transmission channels for unattended industrial sites.

The product supports various configuration and management methods including PC configuration tool, RTTool remote management tool, simplifying on-site deployment and maintenance work, greatly improving deployment efficiency and reducing overall system operation cost, so that customers can really experience the convenience of wireless communication.

The XIG3400 series products are particularly suitable for data acquisition and monitoring of distributed unattended field devices, such as: Power distribution automation, Power meter reading, Street light monitoring, Smart water, Heating system monitoring, Environmental monitoring, Meteorological monitoring.



PRODUCT SPECIFICATIONS

Interfaces	
Industrial Serial Port	2 x Logic serial ports: Serial port 1: RS-232/RS-485 (Optional) Serial port 2: RS-232
	RS-232 signal: TXD, RXD, GND RS-485 signal: 485+, 485-, GND
	10PIN industrial terminal, 3.5mm pitch
SIM Card Slot	1,8V/3V, drawer-type slot
Antenna	50Ω / SMA x 1

Mechanical Properties	
Installation	Wall-mounting
Housing	Metal
Protection Rating	IP30
Cooling	Fanless

Power Supply	
Power Input	DC5-35V
Polarity Reverse Protection	Support
Power Interface	Pluggable industrial terminal connection
Overload Protection	Support
Consumption(@12V)	XIG3320L: 12mA (Standby), 50mA (Working), 200mA (Starting), 200mA (Peak) XIG3320N: 15mA (Standby), 25mA (Working), 200mA (Starting), 200mA (Peak)

Ambient Temperature and Humidity	
Working Temperature	-40 ~ +70°C
Ambient Humidity	5 ~ 95% (noncondensing)
Storage Temperature	-40 ~ +85°C

Indicator	
LED	POWER, SIM, STATUS

EMC Index	
Static	EN61000-4-2, level 2
Surge	EN61000-4-5, level 2
Shock Wave Immunity	EN61000-4-12, level 2

Certification	
CE	

Network Connection	
Network Access	APN, VPDN
Access Authentication	CHAP/PAP
Network Type	GPRS/3G/4G, Cat4
Network Protocols	
Network Protocol	Ping, DNS, transparent TCP/UDP, user-defined login/heartbeat data packet
Protocol Conversion	Modbus RTU/TCP protocol conversion
Network Security	
Multi-level Authorization	User levels: administrator, maintenance staff
Certification Security	Supports login security certification
Reliability	
Reliable Upgrade	Patent upgrade mechanism, ensures reliable upgrade
Link Connection Detection	Sends heartbeat packet detection, auto connect once disconnected
Embedded Watchdog	Device operation self-detection technology, and self-recovery from operation faults
Network Management	
Configuration Method	Local serial port, RTool
Configuration Backup	Supports import and export of configuration files
Upgrade Method	Patent upgrade mechanism, upgrade firmware through the local serial port or remotely
Log	Supports local and online viewing of logs facilitates checking device operating status
Dial-on-Demand	Data activation, timed on/off, SMS activation (depends on the carrier's platform), phone activation.





Interfaces

RS232 PIN

1	GPO	General GPIO (DO), on/offline indicator of DTU
2	RXI	Serial port 1 data receiving
3	TX1	Serial port 1 data transmitting
4	TX2	Serial port 2 data transmitting
5	OFF	Power control: off at high electrical level (3.0-10V), on at low level (0-0.3V) or suspended
6	RX2	Serial port 2 data receiving
7	GPI	General GPIO (DI), reserved (Do not recommend to connect.)
8-9	GND	Ground
10	V+	Positive

RS485 PIN

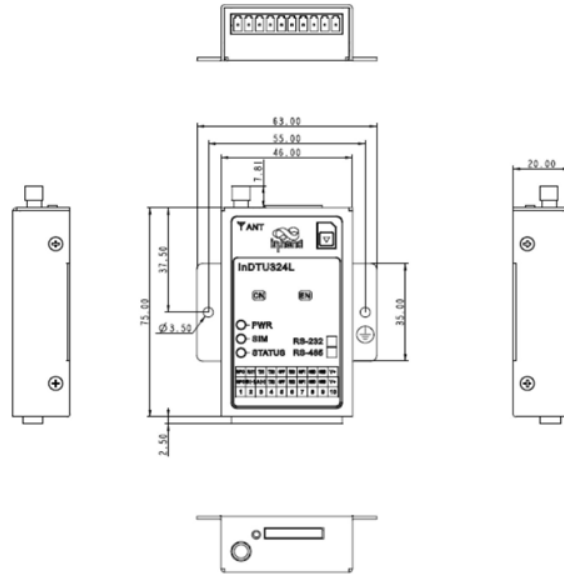
1	GPO	General GPIO (DO), on/offline indicator of DTU
2	B(-)	Serial port 1 RS485-
3	A(+)	Serial port 1 RS485+
4	TX2	Serial port 2 data transmitting
5	OFF	Power control: off at high electrical level (3.0-10V), on at low electrical level (0-0.3V) or when suspended
6	RX2	Serial port 2 data receiving
7	GPI	General GPIO (DI), reserved (Do not recommend to connect.)
8-9	GND	Ground
10	V+	Positi





Dimensions (mm)

L×W×H=75×46×20mm





ORDER INFORMATION

Model	Description
XIG3400-232	Industrial LTE 4G Cat4 cellular gateway, 2* RS-232, Data Mode
XIG3400-232-A	Industrial LTE 4G Cat4 cellular gateway, 2* RS-232, AT Mode
XIG3400-485	Industrial LTE 4G Cat4 cellular gateway, 2* RS-485, Data Mode
XIG3400-485-A	Industrial LTE 4G Cat4 cellular gateway, 2* RS-485, AT Mode





WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

Agatel ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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