

Product Model

LGS2000-ICS

Product Image



Product Overview

LGS2000-ICS series industrial IoT gateway is based on Allwinner A40I processor to realize real-time acquisition, analysis and processing, logic control and data return function of industrial IoT field data. With various interface types, rich protocols, high reliability and strong environmental adaptability, it can be used as a data access node of large IOT system to complete real-time acquisition, edge control and data return of PLC, sensors, intelligent equipment and automation system operation status information, which is widely used in smart factory, smart city, intelligent transportation, petroleum and petrochemical and other industrial IOT application scenarios.

Technical Specification	Fully localized, based on Allwinner A40I processor (4 cores 1.2G), 1G memory, 8G/16G Flash, expandable 64G SD card.	Lights	Power supply
	Support Ethernet, serial port, analog/digital IO and other data access methods	Run	Input Voltage : 18-36V DC
Function	Support TCP/UDP/Modbus RTU/Modbus TCP and other field data communication protocols.	PWR	Power input/ 220V AC
	Provide MQTT/OPC UA/custom data return interface	Link/ACT.Speed	Wattage< 10W
Software Features	Support SM2/SM3/SM4 national security	Environment	Warranty
	Support BeiDou, GPS and GLONASS satellite absolute time reference	Operating temperature:-40℃~+85℃	MTBF:346889h
communication	Fanless natural heat dissipation, -40~85℃ wide working temperature range	Storage temperature:-40℃~+85℃	Warranty Period:5 years
	EMC level 3 protection, adapt to various field applications EMC requirements Industrial grade devices to meet the reliability requirements of various harsh environments	Relative Humidity:5~95%No condensation	
Transmission	secondary function		function requirement
	IOT protocol		MQTT client , HTTP , OPC-UA
Alarm			MODBUS-TCP , MODBUS-ASCII , uMODBUS-RTU , OPC-UA
			TCP pass-through (server/client) ,
Collection Management	device communication protocol		UDP pass-through
	data transit		The identification data to be transmitted is temporarily stored in data transit and automatically cleaned up after transmission is completed to avoid data loss due to abnormalities such as network abnormally, Disconnection of transmission due to network failure, power failure, etc., and data transmission at the first time when the connection is successful to compensate for missed data.
Data Processing	Discontinued transmission		Support custom configuration of data communication transmission frequency and data reporting rules.
	Transmission rules		Device drop alarm.
Online monitoring	Drop Alarm		Network signal abnormal alarm.
	Network anomaly alarm		Insufficient data storage space alarm.
Others	Data over limit alarm		Unique identification of the data is assigned.
	Alarm	Data assignment	Support custom configuration of data collection frequency rules and automated data collection pause and start according to the rules.
ports	Collection frequency		Configuration and calculation of pre-processing rules for quadratic/non-reciprocal operations on collected data.
	Pre-processing		Support remote OTA upgrade of edge computing algorithm package to realize different application scenarios to develop edge computing algorithm package and configure rules for data format conversion, transmission conditions, acquisition frequency and sending instructions for acquisition.
Item	Edge Computing		Temporary secure storage of incomplete transmission identification data.
	Data Storage		Maintain real-time online detection with the platform through a heartbeat detection mechanism.
Electricity supply	Heartbeat Pack		Customized hibernation policy configuration for device or mushing chain data collection, edge computing, connection communication, and data transmission, and automatic wake-up operations according to radio communication network based on telecommunication and mobile operators
	Dormancy Strategy		Reset for abnormal work of the mushing chain, such as: deadlock, dead loop, abnormal operation of the program.
Interface	Base station positioning		
	Watchdog		
Customized / Optional	OTA firmware upgrade		
Item	Description	Note	
	12VDC(9-36V) 220V AC 1 x FE 1 x GE	Choose one of two 2 x 3Pin 5.08 Phoenix terminals RJ45 RJ45	
Interface	4 x 485/422Interfaces (v2124) 2 x Serial ports(A40I)	Double Layer 3.81 Phoenix Terminal Double Layer 3.81 Phoenix Terminal SMA	
	4G Modules GNSS 4 x DIO	4G card front panel to leave the card port SMA Interface Digital input and output	
Item	Description	Note	
	Up to 8 analog inputs as standard Bluetooth 5.1 Wifi 802.11 Currently there is no localization program Multi-way 232/485/422 (can support up to 32 ways) 2-way CAN		
Interface	Optional SD card, can support up to 256G		
	Support software customization		