

2023 PRODUCTS



WHO WE ARE?

Roltek Technology was established in 2014 with the support of the Republic of Turkey Ministry of Science, Industry and Technology.

Since the day it was founded, it offers end-to-end IoT solutions for Industry 4.0, Smart Cities, Smart Energy and Smart Agriculture, with more than 10 high-tech products, hundreds of different solutions and a team of experts in their fields.

It has adopted the principle of three indispensable elements in its products and services. These three principles are; to provide quality, high performance and solutions open to development. Roltek Technology is a high-tech product and solution company.

VISION

To be a company that is constantly growing and developing in the global market with the products and solutions it has developed, and being preferred among its competitors with its expert staff and quality.

MISSION

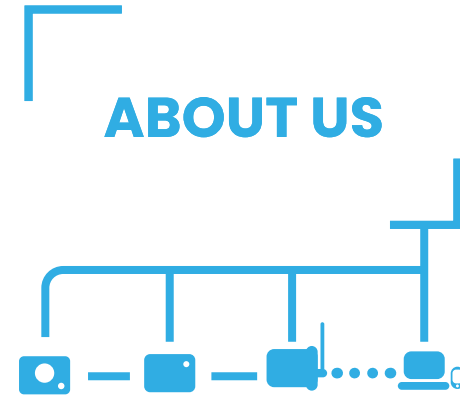
To contribute to the digital transformation of business partners with high value-added, reliable and solution-oriented products and solutions in the field of technology.

WHY US?

- QUALITY
- HIGH PERFORMANCE
- INNOVATIVE

SUCCESS INDICATORS

- 8 years of experience in wireless communication and IoT!
- First round investment in 2021.
- More than 200 new customers in 2021.
- The team that grew by 50% in 2021.
- Thousands of active devices in more than 20 countries all over the world!
- Hundreds of different solutions with 10 different hardware models!
- Production facility in ISO 9001, ISO 14001, ISO 45001 quality standards.
- Use of recycled materials in packaging materials.
- Sponsorship and mentorship to more than 5 student clubs in 2021





ROUTERS





INDUSTRIAL LTE ROUTER

It is a compact, robust and powerful device specially designed for industrial IoT applications. RLTK420 is equipped with 2x Ethernet (LAN / WAN) and WiFi with hotspot functionality. OpenVPN, IPsec, Firewall, Hotspot and remote connection. Provides secure and stable Internet connection for industrial applications with features such as support.

- Wireless Access Point
- Openwrt Based Operating System
- Automatic Reconnection
- High Speed 4G / LTE Connection
- Remote Management
- Easy Assembly and Installation

RLTK420 LTE/4G ROUTER



HARDWARE

POWER	INPUT VOLTAGE: 10 - 28VDC POWER: <8W
SIZE	35MM X 102MM X 117MM
CPU	MEDIATEK MIPS 24KC 520MHZ
MEMORY	16 MB FLASH, 64 MB DDR2 RAM
MOBILE	4G (LTE) - CAT 4 DL UP TO 150 MBPS, UL UP TO 50MBPS DC-HSPA+; UMTS; TD-SCDMA; EDGE; GPRS
LED INDICATORS	3X CONNECTION STATUS, 3X SIGNAL STRENGTH, 2X LAN STATUS, 1X POWER
MOUNTING	DIN RAIL
CASING	ABS - UL 94 V-0
OPERATING TEMPERATURE	-20 TO +60 °C
WEIGHT	125 G
SIM	1X EXTERNAL SIM SLOT
ETHERNET	2 X 10/100 ETHERNET: 1 X WAN (LAN CONFIGURABLE), 1 X LAN
ANTENNA	1X SMA FEMALE IMPEDANCE: 50 OHMS

SOFTWARE

OPERATING SYSTEM	ROLTEKOS (OPENWRT BASED LINUX OS)
NETWORK PROTOCOL	TCP, UDP, IPV4, IPV6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS, SSL V3, TLS, ARP, PPPOE, UPNP, SSH, TELNET, SNMP
NETWORK FEATURES	NAT, STATIC/DYNAMIC ROUTING, FIREWALL, OPENVPN, IPSEC
UNIQUE NETWORK FEATURES	VLAN, LOAD BALANCE, MOBILE DATA CONTROL, WEB FILTER, BACKUP NETWORK CONNECTION, AUTOMATIC RECONNECT
NETWORK MONITORING	PING REBOOT, PERIODIC REBOOT, WGET REBOOT, LCP AND ICMP FOR LINK INSPECTION
AUTHENTICATION	PRE-SHARED KEY, DIGITAL CERTIFICATES, X.509 CERTIFICATES
KEEP CONFIG	FW UPDATE WITHOUT LOSING CURRENT SETTINGS
MONITORING & MANAGEMENT	INTERNAL WEB UI, SSH OPTIONAL SMS, SNMP JSON-RPC, FOTA, ROLTEK MS, MODBUS, MQTT
SUPPORTING LANGUAGES	BUSYBOX SHELL, LUA, C, C++

APPLICATIONS: INDUSTRY, AUTOMATION, ENERGY MONITORING, IOT, DATA COLLECTION, SCADA & TELEMTRY

INDUSTRIAL WI-FI ROUTER

It is a compact, robust and powerful device specially designed for industrial IoT applications. RLTK120 is equipped with 2x Ethernet (LAN / WAN) and WiFi with hotspot functionality. OpenVPN, IPsec, Firewall, Hotspot and remote connection. Provides secure and stable Internet connection for industrial applications with features such as support.

- Wireless Access Point
- Openwrt Based Operating System
- Automatic Reconnection
- Secure Wi-Fi Connection
- Remote Management
- Easy Assembly and Installation

RLTK120 LTE/4G ROUTER



HARDWARE

POWER	INPUT VOLTAGE: 10 - 28VDC POWER: <8W
SIZE	35MM X 102MM X 117MM
CPU	MEDIA TEK MIPS 24KC 520MHZ
MEMORY	16 MB FLASH, 64 MB DDR2 RAM
LED INDICATORS	3X CONNECTION STATUS, 3X SIGNAL STRENGTH, 2X LAN STATUS, 1X POWER
MOUNTING	DIN RAIL
CASING	ABS - UL 94 V-0
OPERATING TEMPERATURE	-20 TO +60 °C
WEIGHT	125 G
ETHERNET	2 X 10/100 ETHERNET: 1 X WAN (LAN CONFIGURABLE), 1 X LAN
ANTENNA	1X SMA FEMALE IMPEDANCE: 50 OHMS

SOFTWARE

OPERATING SYSTEM	ROLTEKOS (OPENWRT BASED LINUX OS)
NETWORK PROTOCOL	TCP, UDP, IPV4, IPV6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS, SSL V3, TLS, ARP, PPPOE, UPNP, SSH, TELNET, SNMP
NETWORK FEATURES	NAT, STATIC/DYNAMIC ROUTING, FIREWALL, OPENVPN, IPSEC
UNIQUE NETWORK FEATURES	VLAN, LOAD BALANCE, MOBILE DATA CONTROL, WEB FILTER, BACKUP NETWORK CONNECTION, AUTOMATIC RECONNECT
NETWORK MONITORING	PING REBOOT, PERIODIC REBOOT, WGET REBOOT, LCP AND ICMP FOR LINK INSPECTION
AUTHENTICATION	PRE-SHARED KEY, DIGITAL CERTIFICATES, X.509 CERTIFICATES
KEEP CONFIG	FW UPDATE WITHOUT LOSING CURRENT SETTINGS
MONITORING & MANAGEMENT	INTERNAL WEB UI, SSH OPTIONAL SMS, SNMP JSON-RPC, FOTA, ROLTEK MS, MODBUS, MQTT
SUPPORTING LANGUAGES	BUSYBOX SHELL, LUA, C, C++

APPLICATIONS: INDUSTRY, AUTOMATION, ENERGY MONITORING, IOT, DATA COLLECTION, SCADA & TELEMTRY

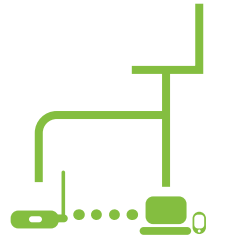


INDUSTRIAL LTE VPN ROUTER

It is a compact, robust and powerful device specially designed for industrial IoT applications. RLTK421 is equipped with 2x Ethernet (LAN / WAN) and WiFi with hotspot functionality. Multi VPN options like OpenVPN, IPsec, Firewall, Hotspot and remote connection. Provides secure and stable Internet connection for industrial applications with features such as support.

- Multi VPN Options
- Serial Ports
- Automatic Reconnection
- High Speed 4G / LTE Connection
- Remote Management
- Easy Assembly and Installation

RLTK421 LTE/4G VPN ROUTER



HARDWARE

POWER	INPUT VOLTAGE: 10 - 28VDC POWER: <10W
SIZE	112 X 84 X 25 mm
CPU	MEDIA TEK MIPS 24KC 520MHZ
MEMORY	16 MB FLASH, 64 MB DDR2 RAM
MOBILE	4G (LTE) - CAT 4 DL UP TO 150 MBPS, UL UP TO 50MBPS DC-HSPA+; UMTS; TD-SCDMA; EDGE; GPRS
LED INDICATORS	3X CONNECTION STATUS, 1X SIGNAL STRENGTH, 1X POWER
MOUNTING	DIN RAIL
CASING	ALUMINIUM ALLOY 6060
OPERATING TEMPERATURE	-20 TO +60 °C
WEIGHT	125 G
SIM	2X EXTERNAL SIM SLOT
ETHERNET	2 X 10/100 ETHERNET: 1 X WAN (LAN CONFIGURABLE), 4 X LAN
ANTENNA	2 X SMA FEMALE, 1 X MOBILE, 1 X WI-FI IMPEDANCE: 50 OHMS

SOFTWARE

OPERATING SYSTEM	ROLTEKOS (OPENWRT BASED LINUX OS)
NETWORK PROTOCOL	TCP, UDP, IPV4, IPV6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS, SSL V3, TLS, ARP, PPPOE, UPNP, SSH, TELNET, SNMP
NETWORK FEATURES	NAT, STATIC/DYNAMIC ROUTING, FIREWALL, OPENVPN, IPSEC
UNIQUE NETWORK FEATURES	VLAN, LOAD BALANCE, MOBILE DATA CONTROL, WEB FILTER, BACKUP NETWORK CONNECTION, AUTOMATIC RECONNECT
NETWORK MONITORING	PING REBOOT, PERIODIC REBOOT, WGET REBOOT, LCP AND ICMP FOR LINK INSPECTION
AUTHENTICATION	PRE-SHARED KEY, DIGITAL CERTIFICATES, X.509 CERTIFICATES
KEEP CONFIG	FW UPDATE WITHOUT LOSING CURRENT SETTINGS
MONITORING & MANAGEMENT	INTERNAL WEB UI, SSH OPTIONAL SMS, SNMP JSON-RPC, FOTA, ROLTEK MS, MODBUS, MQTT
SUPPORTING LANGUAGES	BUSYBOX SHELL, LUA, C, C++

APPLICATIONS: INDUSTRY, AUTOMATION, ENERGY MONITORING, IOT, DATA COLLECTION, SCADA & TELEMETRY



GATEWAYS & REMOTE IO



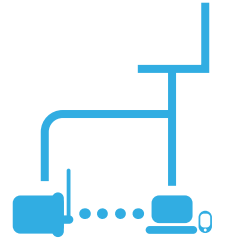


CLOUD IO LITE IOT GATEWAY

CloudIO Lite IoT Gateway are developed for remote monitoring and control in iot applications. It is a gateway that allows devices using Modbus RTU protocol to be included in Modbus TCP/IP and MQTT networks over GSM. It is an excellent choice for remote I/O applications thanks to its 3 digital inputs, 3 digital outputs and 2 analog inputs supporting Modbus TCP/IP and MQTT protocol.

- GSM Technology
- 3 x Digital Inputs / 3 x Digital Outputs / 2 x Analog Inputs
- Plug-and-Play Functionality
- IoT Gateway (Modbus TCP/IP, Modbus RTU & MQTT)
- SMS Alert System
- Automatic Data Collection

CLOUDIO-L-2330 CLOUDIO-L-2332



HARDWARE

- POWER —
- SIZE —
- LED INDICATORS — POWER, TRX, NETWORK, DIGITAL INPUTS AND DIGITAL OUTPUTS
- MOUNTING — DIN RAIL
- CASING — ABS – UL 94 V-0
- OPERATING TEMPERATURE — -20 TO +60 °C
- PROTOCOL — MODBUS TCP/IP OVER MODBUS RTU
MQTT OVER MODBUS RTU
- GPRS — QUAD BAND: 850/900/1800/1900 MHZ
GPRS CLASS: CLASS 12
POWER: CLASS 4 @850/800MHZ, CLASS 1 @1800/1900MHZ
CODING SCHEMES: CS 1, 2, 3, 4
DOWNLINK: 85.6 KBPS @MAX.
UPLINK: 85.6 KBPS @MAX.
- ANTENNA — INTERFACE: 1X SMA FEMALE
IMPEDANCE: 50 OHMS
- INTERFACE — SERIAL: 1X RS485 / 2 PIN – ±15 KV (HBM) ESD PROTECTION

- DIGITAL INPUTS —
- DIGITAL OUTPUTS — CHANNEL: 3X RELAY – SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC
- *ANALOG INPUTS — CHANNEL: 2X ANALOG INPUT 4-20MA OR 0-10VDC

PRODUCT CODE	RS485	3 X DIGITAL INPUT	3 X DIGITAL OUTPUT	2 X ANALOG INPUT
CLOUDIO L-2330	✓	✓	✓	
CLOUDIO L-2332	✓	✓	✓	✓

NOTE: * OPTIONAL

APPLICATIONS: IOT GATEWAY, ENERGY MONITORING, REMOTE I/O, INDUSTRIAL AUTOMATION, WATER & WASTEWATER SYSTEMS, SMART CITY & AGRICULTURE APPLICATIONS

RX: 1.5 – 2W, TX: 3 – 5W

CHANNEL: 3X ISOLATED DIGITAL INPUT
INPUT VOLTAGE RANGE: 10-24VDC

MODPROBUS RTU-P RF MODEM

ModProBus RTU-P Series modems are developed for Industrial automation and Smart agriculture applications. With the help of RS232 and RS485 ports, It provides safe and fast wireless communication between automation units such as many industrial machines, HMI panels and PLC. With the I/O port, by using the ModBus RTU protocol, you can perform your digital I/O operations directly over the modem without the need for an extra device.

MODPROBUS-RTU-P440 MODPROBUS-RTU-P442



- Free Licence ISM Band
- 4 x Digital Inputs / 4 x Digital Outputs / 2 x Analog Inputs
- Plug-and-Play Functionality
- Supporting Modbus RTU
- Din Rail Box
- Range of up to 15 km

HARDWARE

- POWER** — INPUT VOLTAGE: 10 - 26VDC
RX: 0.7 - 2W , TX: 3 - 5W
- SIZE** — 35MM X 102MM X 117MM
- LED INDICATORS** — POWER, TRX, NETWORK, DIGITAL INPUTS AND DIGITAL OUTPUTS
- MOUNTING** — DIN RAIL
- CASING** — ABS - UL 94 V-0
- OPERATING TEMPERATURE** — -20 TO +60 °C
- MAXIMUM RANGE** — 3DBI DIPOLE ANTENNA: 1 KM
6.5DBI OMNI DIRECTIONAL ANTENNA: 15 KM
- RF** — FREQUENCY: 863-870MHZ
OUTPUT POWER: 15 TO 27 DBM
RX SENSITIVITY: -117 DBM
MODULATION: FSK, GFSK, LORA (ONLY LORA VERSION)
DATA RATE: 1.2 KBPS TO 115.2 KBPS
- ANTENNA** — INTERFACE: 1 X SMA FEMALE
IMPEDANCE: 50 OHMS
- SERIAL** — 1X RS232 / DB9F - ±15 KV (HBM) ESD PROTECTION
1X RS485 / 2 PIN - ±15 KV (HBM) ESD PROTECTION

- DIGITAL INPUTS** — CHANNEL: 4X ISOLATED DIGITAL INPUT
ISOLATION PROTECTION: 3500VRMS
INPUT VOLTAGE RANGE: 10-24VDC
- DIGITAL OUTPUTS** — CHANNEL: 4X RELAY - SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC
- * ANALOG INPUTS** — CHANNEL: 2X ANALOG INPUT 4-20MA OR 0-10VDC

PRODUCT CODE	RS485	RS232	4 X DIGITAL INPUT	4 X DIGITAL OUTPUT	2 X ANALOG INPUT
MODPROBUS RTU-440	✓	✓	✓	✓	
MODPROBUS RTU-442	✓	✓	✓	✓	✓

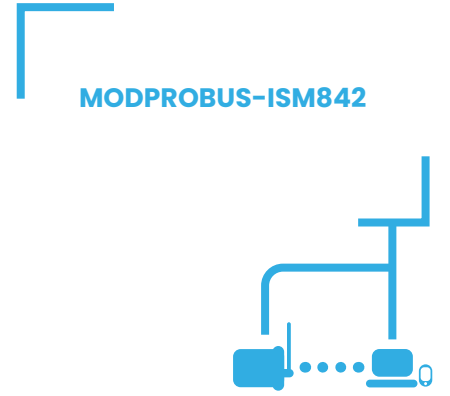
NOTE: * OPTIONAL

APPLICATIONS: TELEMETRY, ENERGY MONITORING, REMOTE I/O, AGRICULTURE APPLICATIONS, BUILDING AUTOMATION, SMART CITY APPLICATIONS



ModProBus ISM842 RF GATEWAY

ModProBus ISM842 RF Gateway enables secure wireless communication with AES256 encryption between devices such as machines, PLCs, and HMI panels, thanks to its RS485 and Ethernet communication ports. It is equipped with a built-in WiFi module for easy configuration and communication operations with third-party software. By supporting automatic data collection and a simplified rule engine, it reduces the need for controllers. With its built-in I/O module supporting Modbus TCP/IP and Modbus RTU, it provides an excellent solution for remote I/O applications.



- License-free communication band
- 8 Digital Inputs / 4 Digital Outputs / 2 Analog Inputs
- Automatic Data Collection
- Modbus Master & Slave Support
- Simplified Rule Engine Support
- Communication Range of up to 20 km

HARDWARE

- POWER** — INPUT VOLTAGE: 10 - 26VDC
RX: < 3 W , TX: < 10W
- SIZE** — 125mm x 103mm x 58mm
- LED INDICATORS** — POWER, TRX, RSSI, DIGITAL INPUTS AND DIGITAL OUTPUTS
- MOUNTING** — DIN RAIL
- CASING** — Aluminum Alloy 6060
- OPERATING TEMPERATURE** — -40 to +85 °C
- MAXIMUM RANGE** — 3DBI DIPOLE ANTENNA: 5 KM
6.5DBI OMNI DIRECTIONAL ANTENNA: 20 KM
- RF** — FREQUENCY: 869.4 - 869.65 MHZ
OUTPUT POWER: 12 TO 26 DBM
RX SENSITIVITY: -124 DBM
MODULATION: GFSK
RF Downlink/Uplink: 2.5 Kbps to 100 Kbps
- ANTENNA** — Interface: 1x SMA Female (RF) Impedance: 50 ohms
1x SMA Female (WiFi) Impedance: 50 ohms
- SERIAL** — 1x RS485 / 2 Pin (Half Duplex)
15 KV HBM ESD Protection, GDT Protection
- ETHERNET** — 1x RJ45 (10/100Mbps)

- DIGITAL INPUTS** — CHANNEL: 8X ISOLATED DIGITAL INPUT
ISOLATION PROTECTION: 3500VRMS
INPUT VOLTAGE RANGE: 10-24VDC
- DIGITAL OUTPUTS** — CHANNEL: 4X RELAY - SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC
- * ANALOG INPUTS** — CHANNEL: 2X ANALOG INPUT 4-20MA OR 0-10VDC

PRODUCT CODE	RS485	RS232	4 X DIGITAL INPUT	4 X DIGITAL OUTPUT	2 X ANALOG INPUT
MODPROBUS ISM842	✓	✓	✓	✓	✓

NOTE: * OPTIONAL

APPLICATIONS: TELEMETRY, ENERGY MONITORING, REMOTE I/O, AGRICULTURE APPLICATIONS, BUILDING AUTOMATION, SMART CITY APPLICATIONS

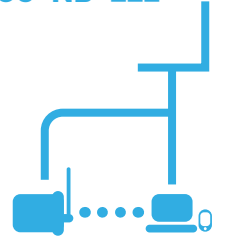


MODPROBUS NARROWBANF RF

ModProBus Narrowband RF Series modems are developed for licenced and unlicenced communication applications. With the help of RS232, RS485 and Ethernet ports, It provides narrowband (12.5KHz, and 25KHz channel spacing) wireless communication between automation units such as many industrial machines, HMI panels and PLC. With the I/O port, by using the ModBus RTU protocol, you can perform your digital I/O operations directly over the modem without the need for an extra device.

- Narrow-Band RF Technology
- 2 x Digital Inputs / 2 x Digital Outputs / 2 x Analog Inputs
- Plug-and-Play Functionality
- Supporting Modbus RTU & Modbus TCP/IP
- Din Rail Box
- Range of up to 25 km

MODPROBUS-NB MODPROBUS-NB-220 MODPROBUS-NB-222



HARDWARE

- POWER** — INPUT VOLTAGE: 10 - 26VDC
RX: 0.7 - 2W , TX: 3 - 5W
- SIZE** — 104MM X 45MM X 104MM
- LED INDICATORS** — POWER, RX, TX, RSSI
- MOUNTING** — DIN RAIL
- CASING** — ALUMINIUM - 6060
- OPERATING TEMPERATURE** — -20 TO +60 °C
- MAXIMUM RANGE** — 3DBI DIPOLE ANTENNA: 2 KM
6.5DBI OMNI DIRECTIONAL ANTENNA: 25 KM
- RF** — FREQUENCY: 400-470MHZ
OUTPUT POWER: 15 TO 30 DBM
RX SENSITIVITY: -117 DBM
MODULATION: FSK, GFSK, 4-FSK, 4-GFSK
DATA RATE: 1.2KBPS TO 19.2KBPS
- ANTENNA** — INTERFACE: 1X SMA FEMALE
IMPEDANCE: 50 OHMS
- INTERFACE** — SERIAL:
1X RS232 / DB9F - ±15 KV (HBM) ESD PROTECTION
1X RS485 / 2 PIN - ±15 KV (HBM) ESD PROTECTION
ETHERNET:
1X 10/100MBIT ETHERNET

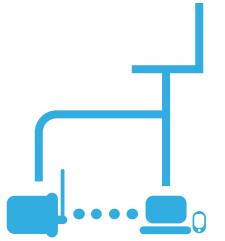
- *DIGITAL INPUTS — CHANNEL: 2 X ISOLATED DIGITAL INPUT
ISOLATION PROTECTION: 3500VRMS
INPUT VOLTAGE RANGE: 10-24VDC
- *DIGITAL OUTPUTS — CHANNEL: 2 X RELAY - SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC
- *ANALOG INPUTS — CHANNEL: 2X ANALOG INPUT 4-20MA OR 0-10VDC

PRODUCT CODE	ETHERNET	RS485	RS232	2 X DIGITAL INPUT	2 X DIGITAL OUTPUT	2 X ANALOG INPUTS
MODPROBUS NB	✓	✓	✓			
MODPROBUS NB-220	✓	✓	✓	✓	✓	
MODPROBUS NB-222	✓	✓	✓	✓	✓	✓

NOTE: * OPTIONAL

APPLICATIONS: TELEMETRY, ENERGY MONITORING, REMOTE I/O, OIL & GAS APPLICATIONS, WATER & WASTEWATER SYSTEMS, SMART CITY APPLICATIONS

MODPROBUS NB842 RF



MODPROBUS NB842 RF GATEWAY

It enables secure wireless communication between devices such as machines, PLCs, and HMI panels using AES256 encryption on licensed communication bands, thanks to its RS485 and Ethernet communication ports. It is equipped with a built-in WiFi module for easy configuration and communication operations with third-party software. By supporting automatic data collection and a simplified rule engine, it reduces the need for controllers. With its built-in I/O module supporting Modbus TCP/IP and Modbus RTU, it provides an excellent solution for remote I/O applications.

- Narrow-Band RF Technology
- 8 x Digital Inputs / 4 x Digital Outputs / 2 x Analog Inputs
- Automatic Data Collection
- Modbus Master & Slave Support
- Simplified Rule Engine Support
- Communicatio Range of up to 30 km



HARDWARE

- POWER — INPUT VOLTAGE: 10 - 26VDC
RX: < 3W , TX: <10W
- SIZE — 125mm x 103mm x 58mm
- LED INDICATORS — POWER, RX, TX, RSSI, Digital Inputs, Digital Outputs
- MOUNTING — DIN RAIL
- CASING — ALUMINIUM - 6060
- OPERATING TEMPERATURE — -40 to +85 °C
- MAXIMUM RANGE — 3DBI DIPOLE ANTENNA: 5 KM
6.5DBI OMNI DIRECTIONAL ANTENNA: 20 KM
- RF — FREQUENCY: 400-470MHZ
OUTPUT POWER: 15 TO 30 DBM
RX SENSITIVITY: -117 DBM
MODULATION: FSK, GFSK, 4-FSK, 4-GFSK
DATA RATE: 1.2KBPS TO 19.2KBPS
- ANTENNA — 1x SMA Female (RF) Impedance: 50 ohms
1x SMA Female (WiFi) Impedance: 50 ohms
- INTERFACE — SERIAL:
1x RS485 / 2 Pin (Half Duplex)
15 KV HBM ESD Protection, GDT Protection
ETHERNET:
1x RJ45 (10/100Mbps)

- *DIGITAL INPUTS — CHANNEL: 8 X ISOLATED DIGITAL INPUT
ISOLATION PROTECTION: 3500VRMS
INPUT VOLTAGE RANGE: 10-24VDC
- *DIGITAL OUTPUTS — CHANNEL: 4 X RELAY - SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC
- *ANALOG INPUTS — CHANNEL: 2X ANALOG INPUT 4-20MA OR 0-10VDC

PRODUCT CODE	MQTT (Data To Server)	RS485	RS232	8 X DIGITAL INPUT	4 X DIGITAL OUTPUT	2 X ANALOG INPUTS
ModProBus NB-842		✓	✓	✓	✓	✓
ModProBus NB-842M	✓	✓	✓	✓	✓	✓

NOTE: * OPTIONAL

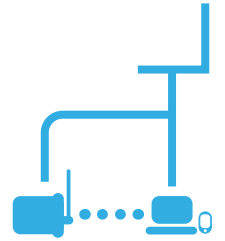
APPLICATIONS: TELEMETRY, ENERGY MONITORING, REMOTE I/O, OIL & GAS APPLICATIONS, WATER & WASTEWATER SYSTEMS, SMART CITY APPLICATIONS

CLOUDIO DATA COLLECTOR

CloudIO Data Collector are developed for remote monitoring and control in iot applications. It is a gateway that allows devices using Modbus RTU protocol to be included in Modbus TCP/IP and MQTT networks over Wi-Fi and Ethernet. It is an excellent choice for remote I/O applications thanks to its 4 digital inputs, 2 digital outputs, supporting Modbus TCP/IP and MQTT protocol.

- Automatic Data Collection
- 4x Digital Inputs / 2x Digital Outputs / 1x Analog Input / 1x RTD Input
- Internal Data Storage
- IoT Gateway (Modbus RTU, Modbus TCP/IP and MQTT)
- Easy Assembly and Installation
- Automatic Reconnection

CLOUDIO-DC-620



HARDWARE

- POWER — INPUT VOLTAGE: 10 - 26VDC
POWER : < 6W
- SIZE — 103MM X 48MM X 100MM
- OPERATING SYSTEM — ROLTEKOS
- WIFI — 802.11B/G/N
- LED INDICATORS — POWER, TRX, NETWORK, DIGITAL INPUTS AND DIGITAL OUTPUTS
- MOUNTING — DIN RAIL
- CASING — ALUMINIUM ALLOY 6060
- OPERATING TEMPERATURE — -20 TO +60 °C
- PROTOCOL — MODBUS TCP/IP OVER MODBUS RTU
MQTT OVER MODBUS RTU
*MQTT OVER MODBUS TCP/IP
- ANTENNA — INTERFACE: 1X SMA FEMALE
IMPEDANCE: 50 OHMS
- INTERFACE — SERIAL:
1X RS485 / 2 PIN - ±15 KV (HBM) ESD PROTECTION
ETHERNET:
1X 10/100MBIT ETHERNET

- *DIGITAL INPUTS — CHANNEL: 6 X ISOLATED DIGITAL INPUT
ISOLATION PROTECTION: 3500VRMS
INPUT VOLTAGE RANGE: 10-24VDC
- *DIGITAL OUTPUTS — CHANNEL: 2 X RELAY - SPST-NO (1 FORM A)
MAXIMUM CONTACT RATING: 5A 250VAC, 3A 24VDC

PRODUCT CODE	RS485	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG OUTPUT	RTD INPUT
CLOUDIO DC-220	✓	2	2		
CLOUDIO DC-620	✓	6	2		

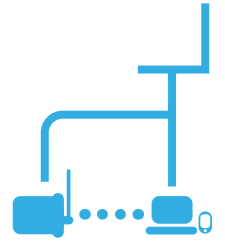
APPLICATIONS: IOT GATEWAY, ENERGY MONITORING, REMOTE I/O, MANUFACTURING EXECUTION SYSTEM APPLICATIONS, MACHINE MONITORING, INDUSTRIAL AUTOMATION



EDGE LITE IoT GATEWAY

The EDGE Lite IoT Gateway is a versatile and lightweight controller that boasts several wireless capabilities and supports multiple Fieldbus protocols. It can function as a standalone PLC in field automation applications or act as an industrial gateway, providing the original PLC with communication abilities for seamless networking and cloud integration.

EDGE LITE IoT Gateway



- CAN, RS485, Ethernet SUPPORT
- Multi-wireless Capability
- Multiple Cloud Services Support
- IoT Gateway (RS485/CAN BUS, TCP IP, Modbus, OPC UA, IEC 61131-3)
- Easy Assembly and Installation
- Automatic Reconnection

HARDWARE

- POWER — INPUT VOLTAGE: 10.8 - 36VDC
- CPU — ESP32S3
- OPERATING SYSTEM — ROLTEKOS
- WIFI — on-chip 2.4 GHz
- LED INDICATORS — POWER, TRX, NETWORK, DIGITAL INPUTS AND DIGITAL OUTPUTS
- MOUNTING — DIN RAIL
- CASING — ALUMINIUM ALLOY 6060
- OPERATING TEMPERATURE — -20 TO +60 °C
- PROTOCOL — MODBUS TCP/IP OVER MODBUS RTU
— MQTT OVER MODBUS RTU
— *MQTT OVER MODBUS TCP/IP
- ANTENNA — INTERFACE: 2X SMA FEMALE
— IMPEDANCE: 50 OHMS
- INTERFACE — CAN BUS *1 (Isolated)
— RS485 *1 (Isolated)

- *DIGITAL INPUTS — 4x Digital Input (Isolated) onboard
— DC input Voltage - 24V
- *DIGITAL OUTPUTS — 6x Digital Output (Isolated)
— Recommended Voltage - 24V
- ANALOG INPUTS — 4x Analog Input (Isolated)
— Input: 0 ~ 20 mA default, 0-10V optional
- ANALOG OUTPUTS — 2x Analog Output (Isolated)
— Output: 0 ~ 5 V

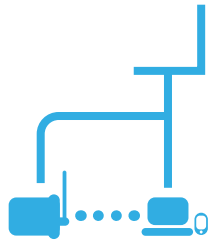
APPLICATIONS: IOT GATEWAY, ENERGY MONITORING, REMOTE I/O, MANUFACTURING EXECUTION SYSTEM APPLICATIONS, MACHINE MONITORING, INDUSTRIAL AUTOMATION



EDGE PRO IoT GATEWAY

EDGE Pro IoT Gateway has a robust overall structure that requires minimal maintenance, as it incorporates thermal management with a full aluminum heatsink enclosure. Its lightweight design and compatibility with both 35mm DIN and wall mounting make it ideal for use in tight spaces and extreme conditions, including in-vehicle applications.

EDGE PRO IoT Gateway



- RS485, Ethernet SUPPORT
- Multi-wireless Capability
- Multiple Cloud Services Support
- IoT Gateway (RS485/CAN BUS, TCP IP, Modbus, OPC UA, IEC 61131-3)
- Easy Assembly and Installation
- Automatic Reconnection

HARDWARE

POWER — INPUT VOLTAGE: DC 12V - 36V

CPU — 4-core Raspberry Pi CM4

OPERATING SYSTEM — ROLTEKOS

WIFI — on-chip 2.4 GHz

LED INDICATORS — POWER, TRX, NETWORK, DIGITAL INPUTS AND DIGITAL OUTPUTS

MOUNTING — DIN RAIL

CASING — ALUMINIUM ALLOY 6060

OPERATING TEMPERATURE — -20 TO +60 °C

PROTOCOL — MODBUS TCP/IP OVER MODBUS RTU
MQTT OVER MODBUS RTU
*MQTT OVER MODBUS TCP/IP

ANTENNA — INTERFACE: 2X SMA FEMALE
IMPEDANCE: 50 OHMS

INTERFACE — RS232 *1 (Isolated)
RS485 *1 (Isolated)

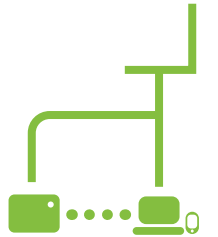
- *DIGITAL INPUTS — 2x Digital Input (isolated)
DC input Voltage - 24V, Current - 1000mA
- *DIGITAL OUTPUTS — 2x Digital Output (isolated)
Output voltage - under 60 V, current capacity - 500 mA
- BLUETOOTH — Bluetooth 5.0, BLE equipped
- CELLULAR — Mini-PCIe support 4G LTE (Quectel EC20/EC25 tested)*
- LoRa — Mini-PCIe support LoRaWAN



SENSORS



SENSNODE-NB



SENSNODE-NB IOT SENSORS

SensNode-NB is a NB-IoT Sensor Node. It is designed for outdoor and indoor use and powered by Li/SOCI2 battery for long term use, power consumption and secure data transmission. It has a sensor connector to connect to external sensors such as temperature, humidity, air quality and electrical failure.

- NB-IoT Technology
- Ultra Low Power consumption
- Plug-and-Play Functionality
- Improved Sensor Interface
- User-Friendly Configuration Interface
- Waterproof

HARDWARE

- POWER — INPUT VOLTAGE: 10 - 28VDC
BATTERY : 3.6V / 8500MAH - LI/SOCI2 UNCHARGABLE
BATTERY LIFE : ≥ 2 YEARS (UPLOAD DATA ONCE PER HOUR)
- SIZE — 154MM X 65MM X 59MM
- CURRENT CONSUMPTION — STOP MODE: 15UA @ 3.3V
TRANSMIT MODE: 250MA (MAX)
- MOUNTING — WALL-MOUNT
- CASING — ABS
- OPERATING TEMPERATURE — -20 TO +60 °C
- PROTOCOL — MQTT, COAP, UDP
- NB-IOT — BAND: B3/B8/B20
- ANTENNA — 1X SMA FEMALE
IMPEDANCE: 50 OHMS

SENSOR TYPE	PRODUCT CODE
TEMPERATURE & HUMIDITY	SENSNODE-NB-TH
AIR QUALITY	SENSNODE-NB-AIRQ
ILLUMINATION	SENSNODE-NB-LX
PHASE LOSS	SENSNODE-NB-PL
DIGITAL INPUT & DIGITAL OUTPUT	SENSNODE-NB-IO
PM2.5, PM10 PARTICLE	SENSNODE-NB-PM

APPLICATIONS: SMART AGRICULTURE, ENVIRONMENTAL MONITORING, SMART BUILDING AND INDUSTRIAL CONTROL, INDUSTRIAL MONITORING AND CONTROL, WIRELESS ALARM AND SECURITY SYSTEMS, SMART CITY

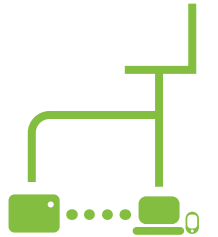


LORAWAN SENSORS

SensNode-LR is a Long Range LoRaWAN Sensor Node. It is designed for outdoor and indoor use and powered by Li/SOCI2 battery for long term use, power consumption and secure data transmission. It has a sensor connector to connect to external sensors such as temperature, humidity, air quality, soil moisture sensor, magnetic sensor, and electrical failure.

- LoRaWAN 1.0.3 Class A, Class C
- Ultra Low Power consumption
- Plug-and-Play Functionality
- Improved Sensor Interface
- User-Friendly Configuration Interface
- Waterproof

SENSNODE-LR



HARDWARE

- POWER** — INPUT VOLTAGE: 2.5 - 3.6VDC
BATTERY : 3.6V / 8500MAH - LI/SOCI2 UNCHARGABLE
BATTERY LIFE : ≥ 3 YEARS (UPLOAD DATA ONCE PER HOUR)
- SIZE** — 154MM X 65MM X 59MM
- CURRENT CONSUMPTION** — STOP MODE: 2.7UA @ 3.3V
TRANSMIT MODE: 250MA @ 20DBM, 44MA @ 14DBM
- MOUNTING** — WALL-MOUNT
- CASING** — ABS
- OPERATING TEMPERATURE** — -20 TO + 70 °C
- PROTOCOL** — LORAWAN
- LORAWAN** — LORAWAN 1.0.4 SPECIFICATION
AVAILABLE BAND:433/868/915/920 MHZ
- CURRENT CONSUMPTION** — 1 TO 10 KM (DEPENDING ON DIFFERENT ANTENNAS AND ENVIRONMENTS)
- ANTENNA** — INTERFACE: 1X SMA FEMALE
IMPEDANCE: 50 OHMS

SENSOR TYPE	PRODUCT CODE
TEMPERATURE & HUMIDITY	SENSNODE-LR-TH
AIR QUALITY	SENSNODE-LR-AIRQ
ILLUMINATION	SENSNODE-LR-LX
PHASE LOSS	SENSNODE-LR-PL
DIGITAL INPUT & DIGITAL OUTPUT	SENSNODE-LR-IO
PM2.5, PM10 PARTICLE	SENSNODE-LR-PM
SOIL TEMPERATURE & HUMIDITY	SENSNODE-LR-STH
SOIL MOISTURE & EC	SENSNODE-LR-EC
MAGNETIC DOOR/WINDOW	SENSNODE-LR-MD
WATER LEAK	SENSNODE-LR-WL
LEAF MOISTURE	SENSNODE-LR-LM
METEOROLOGY (WIND SPEED & WIND DIRECTION, AIR TEMPERATURE & HUMIDITY, PRESSURE)	SENSNODE-LR-MET
MODBUS TO LORAWAN GATEWAY	SENSNODE-LR-MDB

APPLICATIONS: SMART AGRICULTURE, ENVIRONMENTAL MONITORING, SMART BUILDING AND INDUSTRIAL CONTROL, INDUSTRIAL MONITORING AND CONTROL, WIRELESS ALARM AND SECURITY SYSTEMS, SMART CITY