Ethernet IO Card

Model: TSRTU6660
Name: 4G MODBUS IO RTU

- Several AI, DI, DO
- RJ45 Connectivity
- Configurable Protocol
- Configurable Media
- Plug & Play
- RS232 Port

- 4G LTE/WiFi/Ethernet
- Autolink Detection
- 64MB Flash
- OTA device config.
- Optional Additional Storage
- Up to eight sockets

- DIN Rail Mounting
- MODBUS TCP
- FTP
- MQTT(S)
- HTTP(S)
- JSON/CSV

- Upto 100 nodes
- LED & LCD indicators
- MODBUS RTU
- USB
- Upto 30 MODBUS Slaves
- Optional Ethernet

The IIoT IO RTU from Techavo Systems are some of the best available. These are the most intelligent gateways that are produced in-house in India. This make-in-India product can collect data from any MODBUS-enabled energy meter, weather monitoring system, variable frequency drive, string monitoring system, and analog and digital sensors. This IO RTU can provide call and SMS notifications and data in JSON and CSV format over several protocols, including FTP, HTTP(S), MQTT(S), and TCP, to cloud servers. It is possible to remotely configure this device via FTP, TCP, MQTT, SMS, and desktop applications. Its EDGE storing feature guarantees zero data packet loss during a network outage.
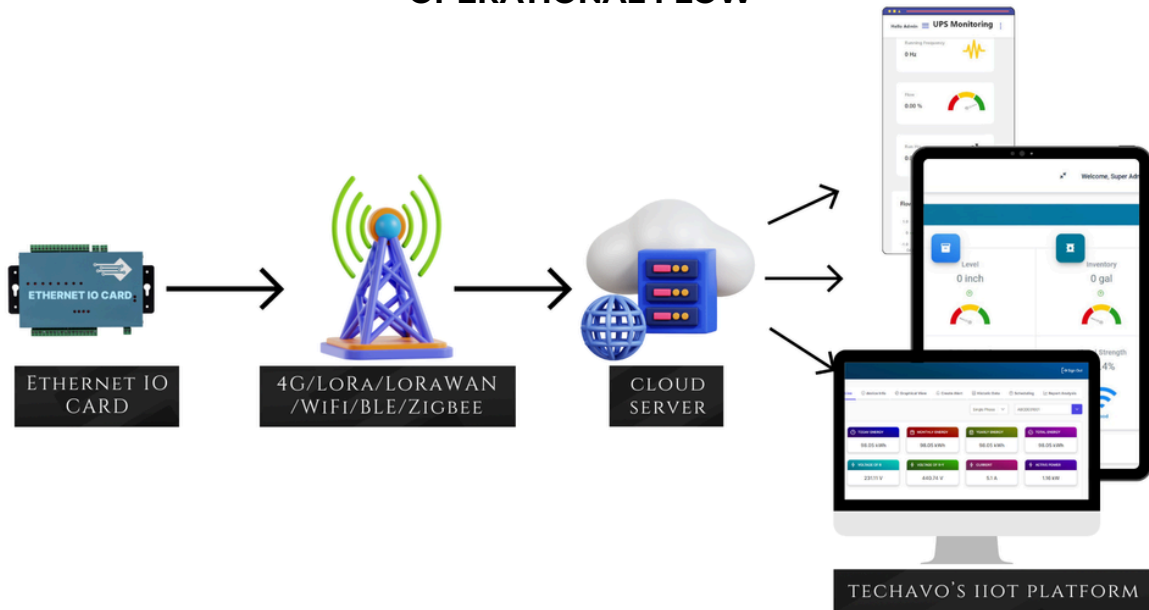
FEATURES

- Comes with 4G/LoRa/LoRaWAN/WiFi/BLE/Zigbee.
- Configurable upto 30 MODBUS Slaves with all possible data formats, byte order, scale factor, baud rate, data bit, parity.
- Multi Communication Protocol support (MODBUS RTU Master, MODBUS RTU Transparent, MODBUS RTU Salve, MODBUS RTU over TCP).
- The Data Packet is in configurable JSON/CSV format.
- Several interlocking logics based on AI, DI, DO are available that can replace PLC.
- SMS/Call options to send/receive configuration, alerts, status, and control.
- Offline data storage up to 64MB.
- OTA device configuration.
- It integrates with all analog (0-10V, 4-20MA) and Digital (dry, wet, pulse) Input Sensors.
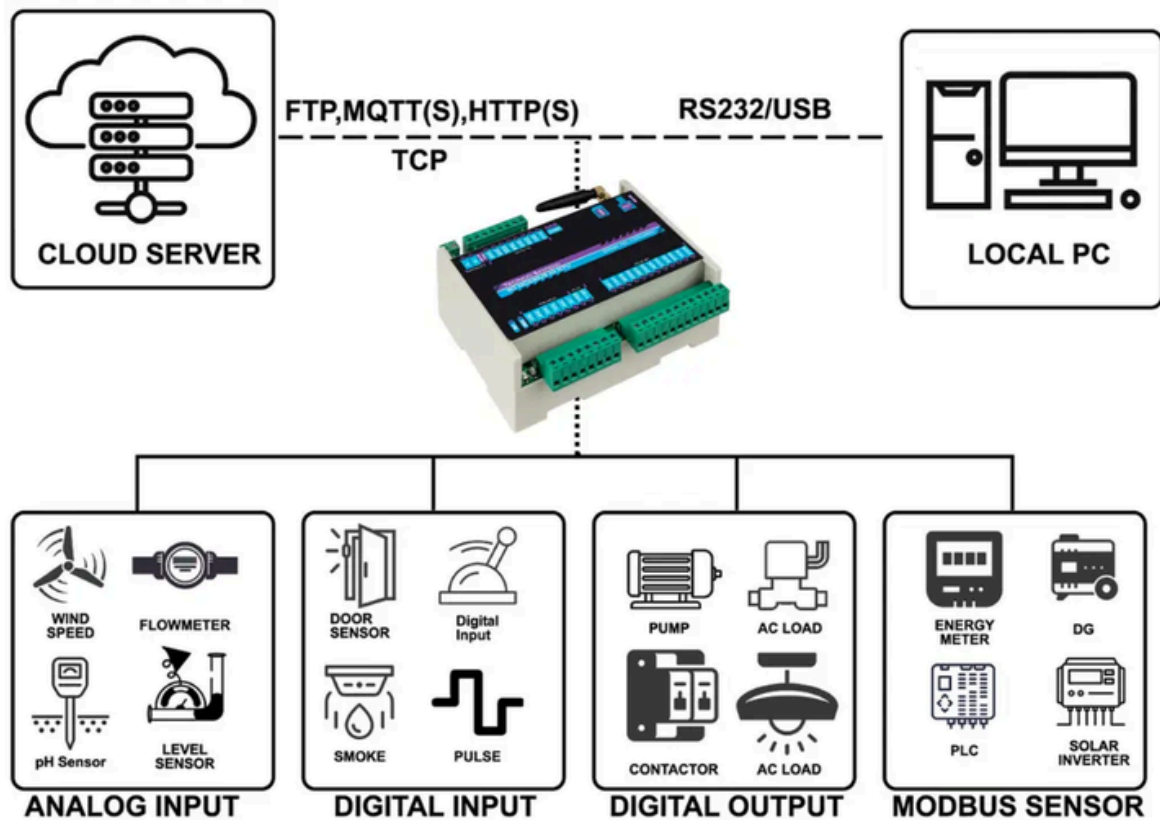- Pendrive/SD Card additional storage (optional).

APPLICATION AREA

- DG Set Monitoring
- CCMS
- Cold Storage
- Smart City
- Energy Management
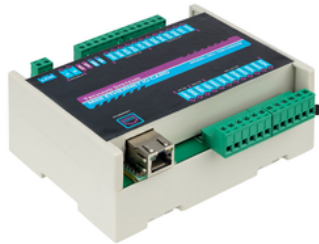- Pump Management
- Weather Station

OPERATIONAL FLOW

ETHERNET IO CARD → 4G/LoRa/LoRaWAN/WiFi/BLE/Zigbee → CLOUD SERVER → TECHAVO'S IIOT PLATFORM

HOW IT WORKS

CLOUD SERVER

FTP,MQTT(S),HTTP(S) TCP

RS232/USB

LOCAL PC

ANALOG INPUT
WIND SPEED, FLOWMETER, pH Sensor, LEVEL SENSOR

DIGITAL INPUT
DOOR SENSOR, Digital Input, SMOKE, PULSE

DIGITAL OUTPUT
PUMP, AC LOAD, CONTACTOR, AC LOAD

MODBUS SENSOR
ENERGY METER, DG, PLC, SOLAR INVERTER
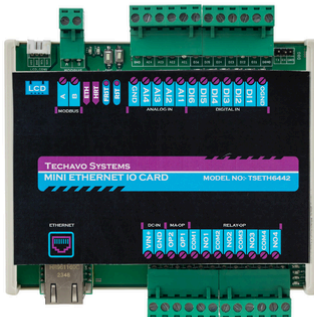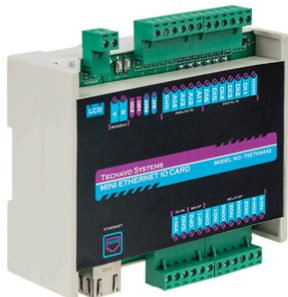
Mini Ethernet IO Card

Model: TSRTU6660
Name: 4G MODBUS IO RTU

- Several AI, DI, DO
- RJ45 Connectivity
- Configurable Protocol
- Configurable Media
- Plug & Play
- RS232 Port

The IIoT IO RTU from Techavo Systems are some of the best available. These are the most intelligent gateways that are produced in-house in India. This make-in-India product can collect data from any MODBUS-enabled energy meter, weather monitoring system, variable frequency drive, string monitoring system, and analog and digital sensors. This IO RTU can provide call and SMS notifications and data in JSON and CSV format over several protocols, including FTP, HTTP(S), MQTT(S), and TCP, to cloud servers. It is possible to remotely configure this device via FTP, TCP, MQTT, SMS, and desktop applications. Its EDGE storing feature guarantees zero data packet loss during a network outage.

- 4G LTE/WiFi/Ethernet
- Autolink Detection
- 64MB Flash
- OTA device config.
- Optional Additional Storage
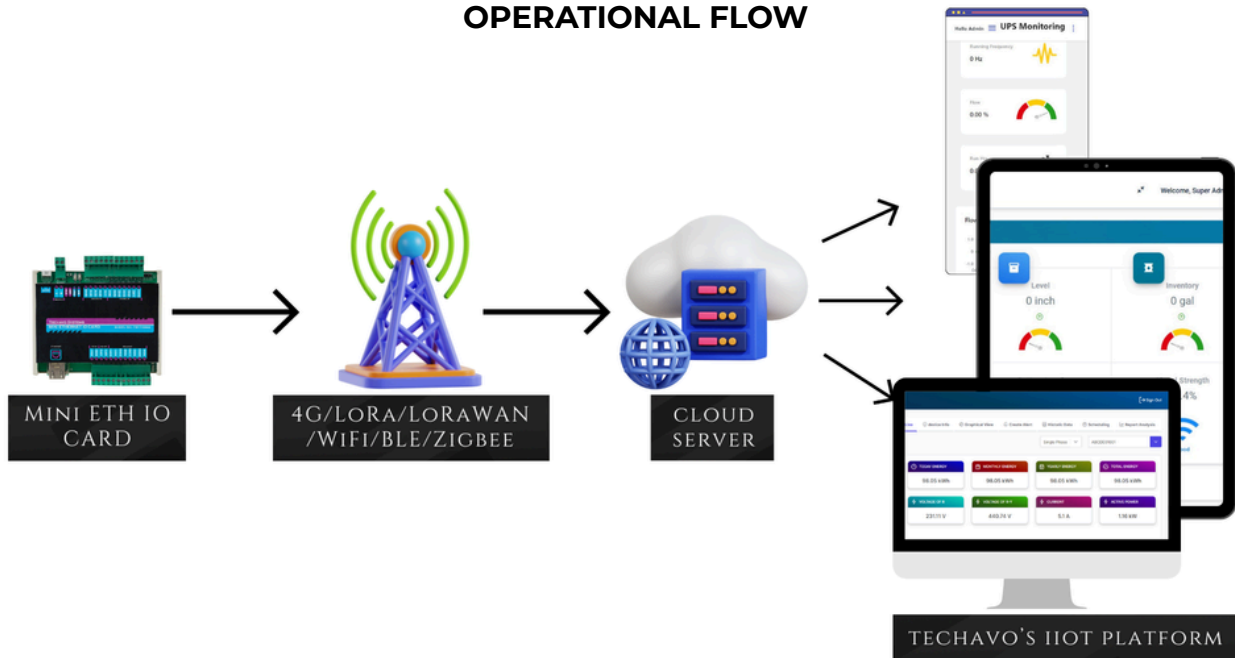- Up to eight sockets

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- Offline data storage up to 64MB.
- OTA device configuration.
- It integrates with all analog (0-10V, 4-20MA) and Digital (dry, wet, pulse) Input Sensors.
- Pendrive/SD Card additional storage (optional).

- UDP
- MODBUS TCP
- FTP
- MQTT(S)
- HTTP(S)
- JSON/CSV

APPLICATION AREA

- DG Set Monitoring
- CCMS
- Cold Storage
- Smart City
- Energy Management
- Pump Management
- Weather Station

- Upto 100 nodes
- LED & LCD indicators
- MODBUS RTU
- USB
- Upto 30 MODBUS Slaves
- Optional Ethernet

OPERATIONAL FLOW

MINI ETH IO CARD → 4G/LoRa/LoRaWAN /WiFi/BLE/Zigbee → CLOUD SERVER → TECHAVO'S IIOT PLATFORM

HOW IT WORKS

CLOUD SERVER

FTP,MQTT(S),HTTP(S)
TCP

RS232/USB

LOCAL PC

ANALOG INPUT
- WIND SPEED
- FLOWMETER
- pH Sensor
- LEVEL SENSOR

DIGITAL INPUT
- DOOR SENSOR
- Digital Input
- SMOKE
- PULSE

DIGITAL OUTPUT
- PUMP
- AC LOAD
- CONTACTOR
- AC LOAD

MODBUS SENSOR
- ENERGY METER
- DG
- PLC
- SOLAR INVERTER