

YuDash ZENYX

Compact IoT Gateway & Data Logger



Connect

- Modbus RS485 / RTU
- Modbus TCP/IP
- 4 × Analog Inputs
- On-board Scaling & Calculations



Communicate

- 4G/LTE & Ethernet
- MQTT, HTTP, REST & FTP
- JSON, TXT & CSV Payloads
- Two-way Data Communication



Log

- 8 GB Local Storage
- Flexible CSV Data Logging
- Network Failure Backfill
- Local Monitoring & Diagnostics

One Product. Many Applications.



Industrial Process



Water Infrastructure



Weather & Hydromet



Energy Monitoring



Smart Building



Machine Monitoring



OEM Asset Monitoring



Environmental Compliance



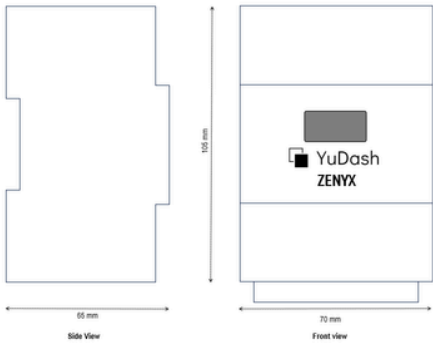
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ZENYX Model Selection

Part No	Analog Inputs			RS485 Modbus	Industrial SD Card (8 GB)	Data Logging
	0 – 20mA	0 – 5V	0 – 90V			
ZENYX44	4 Ch	X	X	✓	X	X
ZENYX46	4 Ch	X	X	✓	✓	✓
ZENYX48	3 Ch	X	1 Ch	✓	✓	✓

Physical Dimensions



Standard Features Across All Models

- 1) 4G/LTE Connectivity
- 2) Ethernet LAN
- 3) RTC

Technical Specifications

Rated Input Supply	12V / 24V DC input.
Processor	Dual-core 32-bit Xtensa LX6 @ 240 MHz
Hardware Interfaces	• 1 x RS485 • 4 channel analog inputs (16-bit ADC) • Inbuilt RTC with battery backup • 8 GB Industrial SD Card
Network Interfaces	• 4G/LTE • Ethernet LAN and Wi-Fi (2.4 GHz).
Display	0.96 inch OLED screen for status monitoring
Dimensions	70 mm (W) x 105 mm (H) x 65 mm (D)
Enclosure	ABS Plastic DIN-rail enclosure. IP 30 rating.
Mounting	DIN-rail and wall mounting. Use in IP67 enclosure for outdoor use.
Weight	Approx. 180 gram
Terminals	5 mm pluggable terminal jacks
Environmental Conditions	Operating Temperature: -10 °C to 60 °C Storage Temperature: -20 °C to 70 °C Humidity: Up to 85% RH, non-condensing
Power Consumption (input 12V DC)	~ 100 mA

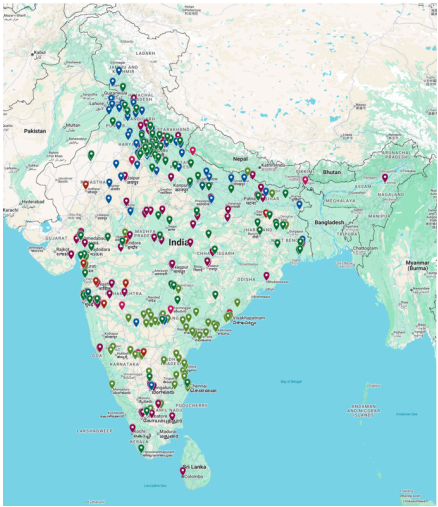
Protocol Support

Analog Inputs	1) 4 Channels of 16-bit ADC for 0-20mA. 2) Optional 0-90V DC input for battery voltage
RS485 Modbus	1) RS-485 MODBUS/RTU and MODBUS TCP/IP 2) Up to 120 parameters/tags. Support for 20 Modbus slaves 3) Modbus Write feature for PLC/Instrument settings update 4) MQTT/Analog to Modbus Client/Server (RTU and TCP/IP)
Ethernet Protocols	1) HTML parsing 2) Modbus TCP/IP 3) SNMP Client

Telemetry & Data Logger Features

Network Connectivity	1) 4G/LTE Cellular <i>EU, ANZ and Global variants available on request</i> 2) Ethernet LAN
Data Logger Features	1) 8 GB Industrial SD card included in data logger. 2) Flexible CSV data logging (hourly/daily/monthly/yearly files). 3) Ethernet LAN based SD card browser.
Cloud Protocols and Payloads	1) MQTT, REST, HTTP, FTP. Secure layer (SSL/TLS) support. 2) Inbuilt JSON payload formats to support all IoT servers. 3) Generic payload generator for CSV and JSON formats. 4) Data push to multiple servers across protocols. 5) Server backfill for network failure.
Ethernet Features	1) Connect to Internet / local LAN server 2) Modbus TCP/IP, HTML parsing, SNMP 3) LAN-based web server for monitoring and diagnostics.
Flexible Configuration	1) Easy configuration through Wi-Fi/LAN from laptop/mobile. 2) JSON based configuration for backup/restore.

Field-Proven Deployments



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