



DR- 1503

MINI RTU/DATA LOGGER

Image shown is a representation only

INTRODUCTION

The DR1503 Mini Remote Terminal Unit (RTU) is a highly integrated and compact control device designed to deliver efficient real-time monitoring and automated control for industrial and substation automation. With its advanced processing capabilities, it supports an array of communication protocols such as Modbus/TCP, DNP3, IEC104, MQTT, 61850, and BACnet, enabling seamless interoperability with various control systems. Its robust connectivity options, including serial and Ethernet ports, facilitate communication with HMI and networked devices, while ensuring compliance with IEC standards for electrical immunity. The DR1503 Mini RTU's small footprint and flexible mounting options make it ideal for space-constrained environments, where it maintains reliable performance even under harsh industrial conditions, ensuring operational continuity and system resilience.

In essence, a Mini RTU is a comprehensive solution that brings intelligent control, connectivity, and reliability to various applications in the field of automation and control systems.

Application

Managing and controlling of the I/o modules via the serial I/O bus

Communication with control systems and local HMI systems via the serial interface and the ethernet interfaces

Industrial automation

Substation Automation

DR- 1503

SPECIFICATIONS

Control System

CPU	IMX Cortex A Up to 1 Ghz
RAM	Up to 512 MB
Flash	Up to 4GB
OS	Embedded Linux
SD Slot	Available
Real-time Clock	Yes
Power Input	10 ~ 30 VDC
Power Consumption	24V @ 5W

Communications

Protocol	Modbus/TCP, DNP3, IEC104, MQTT,61850,BACnet
Serial Port	1 x RS232/485 TB 1 x RS485- Terminal Block
Ethernet Port	1 x RJ-45 10/100 Mbps

Digital Input

Channel Isolation	8ch Opto isolated Isolation 1,500 VDC
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Ordering Information

Mini RTU	Data Logger
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Digital Output

Channel Output Rated	4 ch Opto Isolated Output Type (Source) Rated Voltage 8 ~ 24 VDC
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General

Operating Temp	0 ~ 70°C
Storage Temp	40 ~ 85°C
Humidity	5 ~ 95%(no-condensation)
Mounting	DIN 35 rail/ Wall Mount
Dimension	185 x 110x 30mm
Weight (approx.)	540gm

Certification

Number	Description
IEC 61000-4-2: 2008	Electrostatic Discharge Immunity Test
IEC 61000 -4-3: 2010	Radiated, radio - frequency, Electromagnetic field immunity
IEC 61000-4-4: 2012	Electric Fast Transient Test
IEC 61000 -4 -5: 2014	Surge Immunity Test
IEC 61000-4-6: 2016	Immunity to conducted disturbances
IEC 61000-4-8: 2009	Power Frequency Magnetic Field
IEC 61000- 4-11: 2017	Voltage Dips & Short Interruption Test
IEC 61000 -4-12: 2016	Ring Wave Immunity

ABOUT US

Digital Reach enables the IoT devices to interconnect the embedded systems to the internet. The IoT devices are fully programmable as per customer requirements and it can be deployed in nearly all the areas like Manufacturing, Energy & Utility, Health Care, Home Automation, Retail etc. With our expertise in embedded hardware development, embedded software development, system integration, and project execution, we bring in our experience, commitment and team work to exceed our customer expectation in every customer engagement.

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