digital reach pvt ltd

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DR-1836
FEEDER REMOTE TERMINAL UNIT

PRODUCT OVERVIEW

DR-1836 Field Remote Terminal Unit (F-RTU) is a pivotal component within supervisory control and data acquisition (SCADA) systems, serving as a link between central control systems and remote field devices. Designed for industrial and utility applications our DR-1836 collects, process, and transmits real-time data from sensors and equipment. They support diverse communication protocols, ensuring compatibility with a range of devices. It also gives Security function such as encryption and authentication protect against unauthorized access.

Scalable in nature, DR-1836 accommodate the integration of additional field devices for expanded monitoring and control. the system provides 2 I/O slots accommodating up to 32 DI (Digital In) and 16 DO (Digital Out) opto-isolated interfaces through I/O cards. Communication is facilitated through multiple ports, including RS-232/RS-485, Rs-485, USB Host (High Speed), and 4 Ethernet ports (3 LAN, 1 WAN). Supported communication protocols include IEC 60870-5-104 and Modbus RTU.

With its robust specifications, this Control System is well-suited for diverse industrial and automation applications where reliable performance and communication are essential.

MAIN FEATURES

These I/O modules can be inserted into any of the backplane I/O slots for I/O exchange with CPU

Local fault diagnosis

Isolation between field and logic

Surge Protection

compatible with major operators' network

Adapt to all kinds of unattended industrial application environment

DR- 1836
SPECIFICATIONS

Control System

CPU	Cortex A9 NXP - iMX- 7DL
CPU Clock	1 GHz
RAM	UPTO 512 MB DDR3
SD Card	Upto 32 GB
Flash	Upto to 256 MB/512 MB
RTC	Yes
SD Card	Yes
Power input	12 to 24 VDC

Digital Inputs and Output

I/O Slots	2 x I/O Cards
Digital In	Up to 32 x DI Opto - Isolated
Digital Out	Up to 16 x DO Opto - Isolated

Communication Port

COM	1x RS-232 / RS-485 / 1x Rs-485
USB	1x Host (High Speed)
Ethernet	4 x 10/100 Mbit (3 x LAN & 1x WAN)

Ordering Information

RTU (dr1836-r)
I/O Card (dr0918-io)

Additional Accessories

SMPS (p-dr-1836-24)
DC-DC convertor (p-dr1836-48-24)

Communication Protocol

IEC 60870-5-104 , Modbus RTU

General Specifications

Operating Temperature	0 °C ~ + 60 °C
Relative Humidity	10% ~ 90 %
Dimension	213 X 117 x 101 mm
Mounting Type	DIN Rail Mounting
Weight (approx.)	680 gm (without PCB) & 13.30gm (with PCB)
Number	Description
IEC 60870 -2-1 : 1995	Magnetic Field Strength test
	Fast Transient Bursts test
	Damp Oscillatory waves test
	Electrostatic discharges (ESD) test
	Only Radiated Electromagnetic field test
IEC 60068 -2-2 : 2007	Dry heat test
IEC 60068 -2-1 : 2007	Cold test
IEC 60068 -2-78 : 2012	Damp heat damages observed in the Equipment

Application

Substation Automation
FRTU (Field Remote Terminal Unit)
SCADA Application
IoT Gateway

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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