



DR- 2864

REMOTE TERMINAL UNIT

Image shown is a representation only

PRODUCT OVERVIEW

DigiReach DR 2864 RTU focuses on RTU SCADA application. The DR 2864 is also a standalone RTU that provides a 16-bit 8-ch A/D converter, 32-ch Soft Relay, and 32-ch Digital Input. This controller also supports four serial communication ports and two networking interfaces. With this application-ready RTU, you can seamlessly integrate your applications into the DR 2864 and speed up your system development.

The DR 2864 is a compact controller (CPU module) with NXP i.MX9 2x Cortex A55 Processor CPU and Linux operating system. DR 2864 can execute control tasks for various industrial control and automation applications. The DR 2864 has a native IEC 61131-3 RTU runtime for Power Utility SCADA with IEC 60870-5-104 Slave pre-build image on board.

Due to the low power consumption, the DR 2864 doesn't require any fan in the mechanism, giving better reliability. The operating system has been installed in the internal flash. Therefore, the operating system and application programs require no extra external HD or SD card. Besides, DR 2864 provides an internal SC card slot for data storage. DR 2864 could operate well under $-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$; its small size and lightweight could fit in a robust industrial environment. With this advantage, DR 2864 is suitable for a communication gateway for converting communication protocol, 10 control, and data storage.

Features

- MPU module 1.5Mhz, 2xCortex A55 + 1x Cortex M33@250 Mhz
- 4x Rs232/RS485 Isolated
- 2x CAN FD
- 2x 100/1000 Mbps, with TSN support
- 8-ch 16-bit differential Analog Input
- 32-ch isolated Digital Input
- 32-ch isolated Digital Output
- Embedded Linux 5.x OS.

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SPECIFICATIONS

System Hardware

Processor	NXP i.MX93 i.MX2864
CPU	2x Cortex-A55@1.5GHz + 1x Cortex-M33@250MHz
RAM	1GB LPDDR4
ROM	8GB eMMC
RGB parallel	RBG LFT (Optional) 1280x800p60

IO Interface

Ethernet	supports 2x RGMII, one supported with TSN; 10/ 100 / 1000Mbps
Serial Port	4x RS232/RS485 with Isolation 2000 KV
UART	up to 5Mbps
CAN-FD	complies with CAN-FD and CAN 2.0B
USB	two USB2.0 controllers with PHY integrated
SD card	complies with USB3.0;

Digital Input

Channels: 32
I/O Type: Sink
Wet Contact:
Logic 0:0 ~ 10 V
Logic 1:19 ~ 30 V
Isolation: 3000 VDC
Connector: Terminal Block (#14 ~ 22 AWG)

Digital Output

Channels: 32
I/O Type: Power Relay Form A
Contact Rating:
AC: 5A @ 250 V;
DC: 5 A @ 30 V (Resistive Load)
Isolation: 500 VDC
Connector: Terminal Block (#14 ~ 22 AWG)

Analog Input

Channels: 8 differential
Resolution: 16 bits
Sampling rate: 10 Hz/sec (total)
Input Impedance: Voltage: 20 MQ Current: 120 O
(Build-in 120 O. for Current)
Input Range: 0 ~ 150 mV, 0 ~ 500 mV, 0-1V, 0-5V, 0-10V, 0-15 V, +150 mv, +500 mV, +1 V, £5 V, £10 V, 415 V, £20 mA, 4 ~ 20 mA

Environment

Humidity: 5 ~ 95% @ 40°C (non-condensing)
Operating Temperature: -20 ~ 80°C @ 5 ~ 85% RH
Storage Temperature: -40 ~ 85°C

General

Power Consumption: <10 W (Typical)
Power Requirements: 24 VDC (Typical) (10 Min ~ 30 Max VDC)
OS Support: Linux 5.X
Dimension 260 x 145 x 35mm

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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