

Features

- Arm® Cortex®-A5 NXP®/Freescale
- 3 x RS-232/UART
- 10/100 Ethernet
- 1 x RS-485 (2 wire auto flow control)
- 4 x Analog Input
- RTC
- 8 x Digital Out
- 4 x Digital Input
- Mini PCI-e 3G/GSM/GPRS/Wi-Fi
- SD card storage
- Embedded Linux operating System
- IEC 101/104 Compatible



Introduction

The DR1503 BOARD is a SODIMM sized computer module based on the NXP®/ Freescale Vybrid embedded system-on-a-chip. The Cortex A5 CPU peaks at 400 MHz. The module delivers cost effective CPU and graphic performance with minimum power consumption.

Specification	
CPU	Cortex – A5 (NXP Vybrid)
CPU Clock	400 MHZ
RAM	128MB DDR3 (16 Bit)
SD Card	UPTO 32 GB
FLASH	128MB NAND (8 Bit)
COM	3 x RS-232
	1 x RS-485
USB	1 x Host (High Speed)
Ethernet	10/100 Mbit With IEEE 1588
Digital In	4 x DI Opto-Isolated 1.5 KVRMS isolation 5volt DC 15 mA max input
Digital Out	8 x DO Opto-Isolated 1.5 KVRMS isolation 24volt DC 25 mA max contact rating
Analog In	4 x AI (0-5VDC,0-20mA) (12-bit ADC)
RTC	Yes
SD Card	Yes
Power Input	12 to 24 VDC
Power Output	5/12 VDC
Operating Temperature	-20 C ~ +60 C
Relative Humidity	10% ~ 90%
Dimension	180 x 100 mm

Application

- AMR (Automatic meter reading)
- FRTU (Field Remote Terminal Unit)
- Machine Vision
- Industrial Automation
- Home Automation
- DCU (Data concentrator unit)
- Agriculture
- Medical
- IoT Applications

Ordering Information

- IoT Gateway (dr1503-gw)
- IoT Gateway with 3G Module (dr1503-gw-3G)
- IoT Gateway with 4G Module (dr1503-gw-4G)
- IoT Gateway with Wi-Fi Module(dr1503-gw-wf)

Additional Accessories

- Power adapter (p-dr1503-12)
- Antenna (an-dr1503-sm or an-dr1503-1lr)

Test Certificates

- ESD IEC 61000-4-2:2008
- EFT IEC 61000-4-4:2012
- ICD IEC 61000-4-6:2013
- PMF IEC 61000-4-8:2009
- SIT IEC 61000-4-5:2014
- VIT IEC 61000-4-11:2017

