

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



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)

