



PRODUCT NAME : Hydra

PRICE : Rs 3,550.00

SKU : RM2362



DESCRIPTION

Hydra is a feature rich development board powered by ARM Cortex-M3 based LPC1768 microcontroller. The modular design makes it suitable for any embedded and robotics application. It is suitable for beginner, intermediate and advanced embedded developers. Hydra may be powered by 5V external power supply or using USB. Hydra is compatible with Phi Robotics DP83848Eth-BB Ethernet breakout board. Hydra can be enhanced to connect to external USB devices/hosts by connecting external USB socket to its USB interface header. For portable data storage, a standard micro SD card socket is included. The micro SD Card is interfaced with the microcontroller using SPI bus. Hydra also has a battery socket for on-chip RTC.

A unique feature of Hydra is Phi Robotics Expansion Bus. Phi Robotics Expansion Bus is a cross-platform stackable connector which allows user to build modular systems. Multiple expansion boards can be stacked on top of a base board to expand the system functionality. All the signals on the expansion bus are standardised to 3.3V. Base board expansion bus have 3.3V and 5V supply lines to power expansion boards. All Phi Robotics base boards and expansion boards comply with this expansion bus design.

Phi Robotics Expansion Bus is a 10x2 pin connector having the following peripherals: UART, SPI, I2C, CAN, GPIO and external interrupts. All expansion bus peripherals are enabled on base boards, however on expansion boards only peripherals that are required are enabled.