MyPi Industrial IoT Integrator Board XT

Embedded
MICRO TECHNOLOGY

■ Main Card Features

Supports All Raspberry Pi Compute Module 4 variants

Dual Ethenet interfaces - 1x Gigabit Ethernet adapter & 1x 10/100 Ethernet adapter

2x USB 2.0 master interfaces (external access)

Mini PCI-e Interface + SIM connector For use with 4G cellular modems

USB interfaced µSD Card interface, providing additional storage separate from the Compute Module eMMC flash

Integrated SPI Infineon SLB9670 TPM 2.0

Dual high-resolution Raspberry Pi camera interfaces

Integrated battery backed real-time-clock (RTC)

Board Serial Number ID EEPROM

Modular IO Cards for application specific IO solutions

Temperature activated fan control (same as Pi CMIO4 board)

Additonal 60 Second hardware watchdog (active from power up/boot)

HDMI display output

2x Bi-colour (red/green) front panel status LEDs

1x Opto-Isolated Digital Input

8Way 2-part 3.5mm Screw terminal connector for use with modular IO card outputs or HAT board

Wide 9-28V DC power input range

Wide -20 to +85°C temperature operating range

Core PCB Size : 125 x 142mm
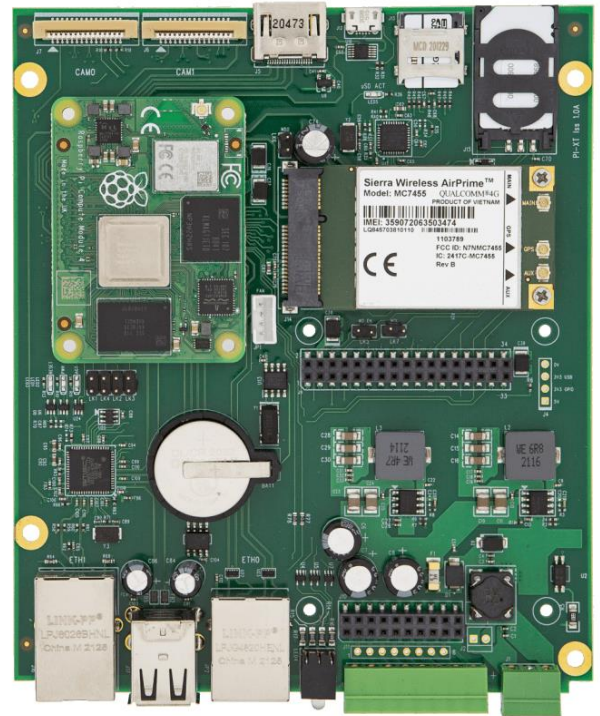
■ I/O Socket Features

I2C Interface

SPI Interface (2 x Chip Selects)

TTL 16550 UART (RX/TX/RTS/CTS)

TTL Serial Console

28 x GPIO Lines

2 x PWM Outputs

2 x GPCLK Outputs

■ Enclosures

Form-factor adjustable to fit two "off the shelf" Hammond brand aluminium enclosures in different size/colours:

Single Height - Hammond 1455P1602(/BK)
Double Height - Hammond 1455Q1602(/BK)

Pre-cut end plates and silk-screening service available

Also compatible with weather proof IP55/66 Rated StationBox enclosure from RF Elements

■ Power Consumption

9-28V DC Input
2.7-4.7W Average -Dependant on CPU module & CPU activity

■ Dimensions

Core PCB Size   : 125 x 142mm
+ Break Off Enclosure Tabs : 125 x 160/163.4mm

4 x M3.5 mounting holes

■ Raspberry Pi Compatibility

Fully compatible with Raspberry Pi Compute Module 4 CPU modules, enabling swift migration of any existing development work done using a standard Raspberry Pi.

■ FCC/CE Approvals

Obtained a FCC/CE Class A (Industrial) when tested within ENC1/2/3 enclcosures.