

ruggedBOARD-A5D2x
Pico Industrial Computer

#### **Highlights**

- Off-the-shelf Single Board Computer for IIoT
- Freedom to modify Schematics and Layout sources of Carrier board & Sensor modules
- Proven process for Prototyping till Mass Manufacturing
- Feature rich & Highly cost optimized platform
- Simple & Powerful Open Source Software IoT Stack







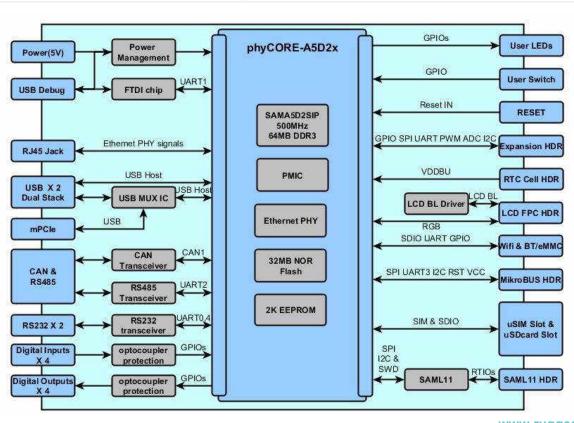




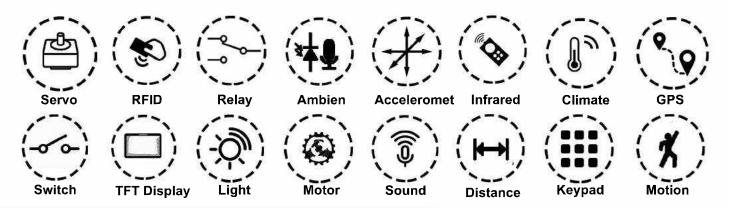


# **Product Specifications**

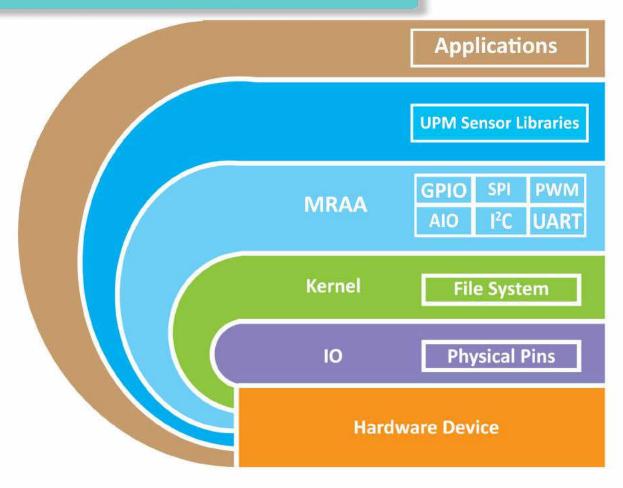
	SOM – RB- A5D2x
SOC	Microchip ATSAMA5d2x Cortex-A5
Frequency	500MHz
RAM	64 MB DDR3
Flash	32 MB NOR flash
SD Card	SD Card Upto 8 GB
	Software
OS	Yocto Linux
Kernel Version	Linux Kernel 4.12
	Industrial Interface
RS232	2x RS232
RS485	1x RS485
USB	2 x USB*(1x Muxed with mPCle)
CAN	1x CAN
Digital Input	4x DIN (Isolated ~ 24V)
Digital Output	4x DOUT (Isolated ~ 24V)
	Display Interface
Display Size	24bit RGB, Supports 3" to 5" TFT Display
Touch	Capacitive Touch
	Internet Access
Ethernet	1 x Ethernet 10/100
Wi-Fi/BT	Optional on Board Wi-Fi/BT
SIM Card	1 x SIM Slot (for mPCle Based GSM Module)
	Add-On Module Interfaces
Mikro-BUS	Standard Mikro-BUS
mPCle	1 x mPCle* (Internally USB Signals is used)
<b>Expansion Header</b>	SPI, I <sup>2</sup> C, UART, PWM, GPIO,ADC
	Power
Input Power	DC +5V or Micro USB Supply
Temperature Range	- 40°C to + 85°C



### Add-On Sensor Modules



## **Software Eco-System**



RUGGED BOARD supports Python, C, C++ and enabled with industry standard MRAA & UPM IoT Stack which manages Sensors, Actuators, Radios & Protocols.

#### I/O protocol control:

- •GPIO
- •SPI
- •1-Wire
- •PWM

- •Analog ( AlO)
- •I2C
- •Firmata
- •UART









