

## Overview

The LoggerPi is a measurement and control datalogger developed with a Raspberry PI micro controller. It's a powerful core component for your data-acquisition system. We added faster communications, built in USB and improved analog input accuracy and resolution. The LoggerPi allows for virtually any sensor (analog, digital, smart) to be connected.

## Benefits and Features

- Ambercloud – platform for collecting and analysing data
- Amberlogger web or Bluetooth - android and web app for remote access
- Flexible power input from solar panel, DC power supply, 12 V battery
- Micro SD card drive or external hard disk drive for extended storage requirements
- Serial sensors support with RS-232, UART, HART
- Internet communications via Ethernet/LAN, satellite, cellular networks
- Wireless RF (radio frequency) communication allows loggers to exchange data in remote areas without reliable internet and create mesh networks
- Capable of 5 second sample rates
- High accuracy and high precision analogue converters
- Wide variety of sensor protocols such as HART, UART, Serial, I2C, SPI and SDI-12
- RTC (real time clock) for accurate time keeping
- Capable of using GPS/GLONASS for 10us of error per year
- Automation capabilities to perform actions automatically

## Technical specifications

- CPU: 700Mhz single core up to 1.2Ghz (single and quad core)
- Internal memory: 256MB, 512MB, 1GB depending on model
- Storage capacity: micro SD card ranging from 4GB to 64GB
- Data logging
  - Sampling rates up to 0,2 Hz
  - Automatic management of sampled data in case of power loss or loss of internet connectivity
- Analogue to digital converters
  - 12-bit ADC
  - 8 Analogue Input Channels
  - 8ksps Sampling Rate
- Connectivity
  - Cellular Modem
  - Satellite
  - 10/100 Ethernet LAN
  - *Wireless radio frequency mesh*