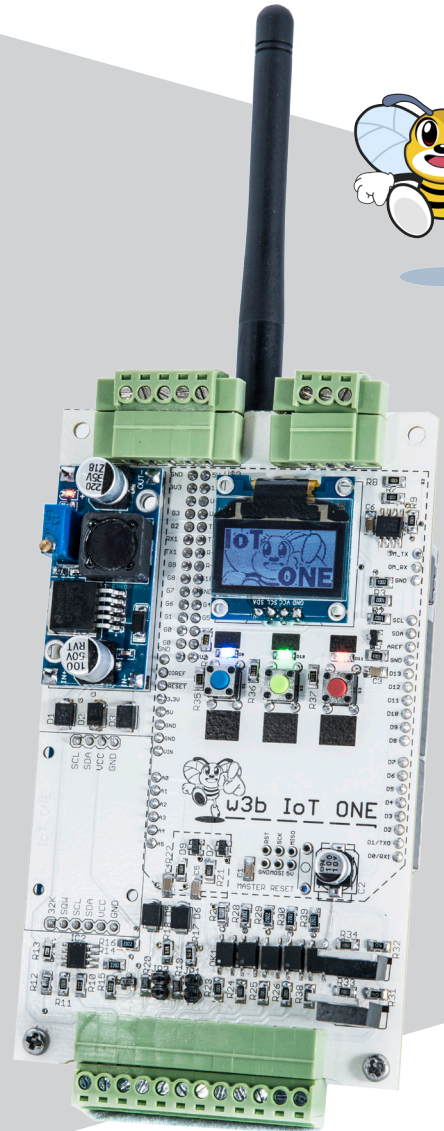# Introducing the

IoT-ONE...

The **IoT-ONE** is our flagship linux powered single board computer designed to take in real world signals and produce human readable data, in other words, to put your THING on the internet! Harnessing the power of the LEDE (Linux Embedded Development Environment) Linux operating system, we are able to provide accurate and reliable remote monitoring, control and acquisition of your data.

Our **IoT-ONE's** are designed to work with, but are not limited to our **W3b IoT** web platform. Your data can be manipulated, validated, posted to any similar service, or just popped into an email for your daily perusal. You decide!

Contact us for a live demo!

Hardware Features

- 580MHz MIPS CPU
- 2.4 GHz IEEE 802.11 b/g/n WiFi
- Optional 10M/100M wired ethernet network adapter
- 128MB of DDR2 DRAM
- 16 or 32 GB SD Card based data storage
- Supply Voltage from 10 to 30V DC
- High speed counter input - upto to 120kHz
- RS485 Serial Communication Port
- 5 Optically-Isolated digital inputs
- 2 x 10-bit Analog to digital convertors (0 to 5v or 4-20mA)
- 2 x 60V 5A Open Sink MOSFET outputs
- 128x64 pixel OLED display screen
- Battery Backed-up real time clock for accurate timekeeping
- USB 2.0 port
- Tough industrial ABS case & cooling fan
- Optional GPS device for location logging
- Optional Barcode scanner for batch identification
- Optional 4 port USB hub extension

Software Features

- LEDE Linux Operating system
- Built in Apache webserver
- MySQL Database for high volume data storage
- FTP Server & SSH Support
- USB 2k Camera Support
- Optional GPS device for location logging
- Optional Barcode scanner for batch identification

Typical Applications

- Monitoring of manufacturing plant process controls
- Auditing of factory machine outputs
- Remote monitoring and control of machinery
- Data acquistion and processing
- Machine Operator Surveilance

MADE IN SOUTH AFRICA

w3b

Contact us via **info@w3b.co.za**, or visit **w3b.co.za** for more information