



INTRODUCING DAYTECH

At DAYTECH, we research and develop, manufacture and integrate, state of the art electronic and software systems for Industrial Automation and Control. We specialise in developing Wireless Mesh Networks, Rugged Edge Computing, Cellular M2M, Smart Microprocessor Wireless Sensor and Control Technology, Off-Grid battery powered systems, together with Full-Stack IoT software and Edge Intelligence.

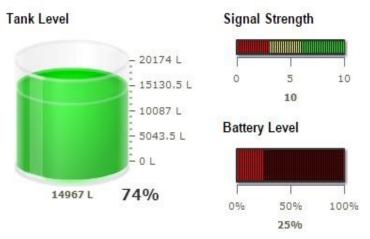
It get's complicated and can be expensive to build advanced, interoperable IoT systems. That's why we developed the SmartNode™ and ControlMesh™ platforms, to be rugged, cost effective and easy to use, so that you can specialise in what you do best and reduce time and cost to take your automation and control system to the next level!



SMARTNODE TECHNOLOGY

The modular hardware is designed from the ground up to be easily connected to the internet for remote monitoring or control – collectively known as 'Internet of Things'. Our platform empowers you, through an easy to use modular "building blocks" approach, similar to the concept of Lego. The SmartNode™ and ControlMesh™ Platform, might be fun to use, however, being industrial grade it's far from a toy.

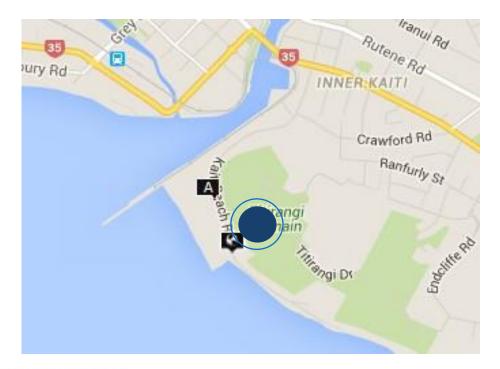
"Build your own IoT system – create your own Apps!"



We have been developing technology for the **Industrial IOT boom** for over 8 years and have invested heavily in R&D, allowing you to leverage the digital revolution and merge your physical and digital worlds.

The end to end platform allows you to build incredible automation systems, with IoT capability including apps for your company or customers, remote access, monitoring and control, sophisticated wireless mesh networks (including LoRa and Zigbee) and cellular 3G/4G gateways, with minimal learning curve and low barriers to entry.



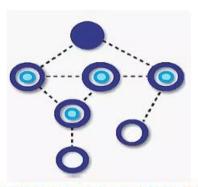






IoT - MONITOR & CONTROL

Industrial grade IoT - Internet of Things Technology - software development, rapid prototyping, product engineering, smart gateways, nodes and sensors, Ready for Industry 4.01



WIRELESS SENSOR NETWORKS

Zigbee, LoRa, WiFi - Industrial grade Wireless Sensor Networks - intelligent mesh networks, product design & engineering, remote sensor monitoring and control.



SENSORS AND ACTUATORS

Industrial grade sensors and actuators for control and monitoring, product engineering, industrial automation and IoT applications.



M2M COMMUNICATIONS

Industrial grade M2M Technology - gateways, 3G/4G modems, remote access and control, communications systems integration.



INDUSTRIAL COMPUTERS & HMI

Industrial grade fanless PCs, touchscreens and Human Machine Interfaces, remote control, GUI software systems development & integration.

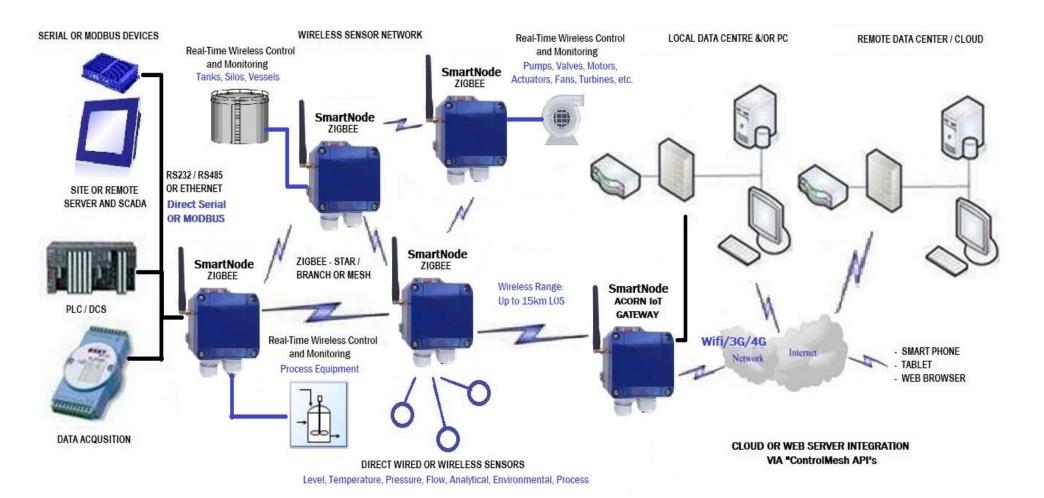


SOLAR AND BATTERY POWER

Industrial grade solar and battery powered systems - packaged solutions, product engineering, remote monitoring and off-grid powered equipment.



IoT-SmartNode - Zigbee Mesh Wireless Network Topology - In Field Example



Go wireless and control your process and equipment directly from DAYTECH smart sensors.





Wireless smart temperature and pressure complete with digital display setup for switching at setpoints for remote wireless control.





Wireless flow switch complete with sensitivity control for switching flow at setpoints for remote wireless control.







Wireless level sensor point to point for control and switching pumps, motors or valves wirelessly for tanks, dams or bore level control.

You're only limited by your imagination – the possibilities are endless!

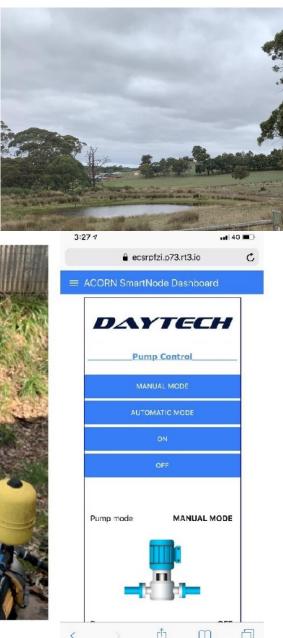
IoT-SmartNode-Gateway - Automation Application Example - Pump Control

In this example, the IoT-SmartNode-Gateway has been used as a remote pump monitoring and automation system. Multiple remote SmartNodes are wireless connected on the mesh network to the SmartNode-Gateway.

Water level in the tank, dam and the bore is monitored and the pump is controlled in manual or automatic mode, with user defined control setpoints, email notifications, data historian for collecting and saving time/date stamped data to CSV, graphics for tank level gauges, trend graphs, maintenance and configuration.





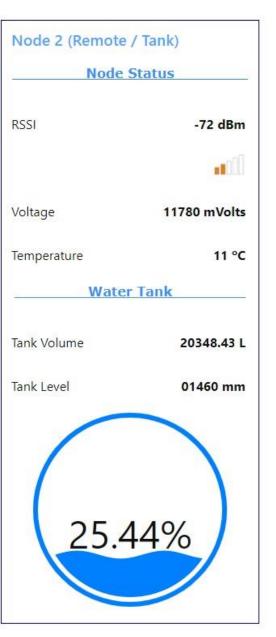




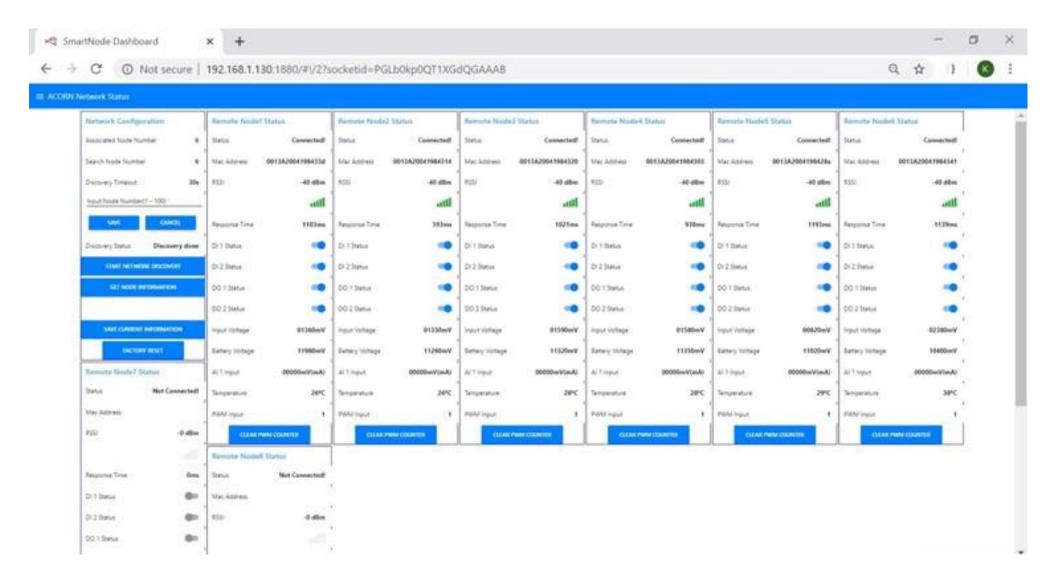
IoT-SmartNode-Gateway – Graphical User Interface & Process Dashboards – Examples

Pump Control	
DAY	TECH
Pum	p Control
MAN	UAL MODE
AUTON	MATIC MODE
	ON
	OFF
Pump mode	MANUAL MODE
Pump mode	MANUAL MODE

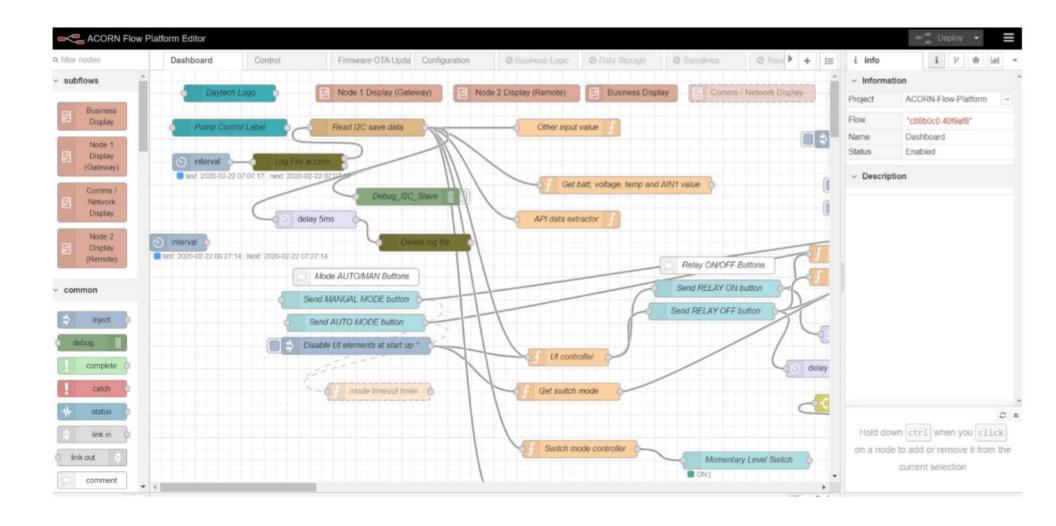
Node 1 (Gateway / I	Pump)
Node Sta	ntus
Input Voltage	12012 mV
Node Temperature	22 °C
Node Battery Voltage	11332 mV
Pump Control	Settings
Tank Level Start	
Tank Level Stop	
Change Tank Level Start	(0 - 100) *
Change Tank Level Stop	(0 - 100) *
SAVE	CANCEL
Device Error	Status
Error State	No Error



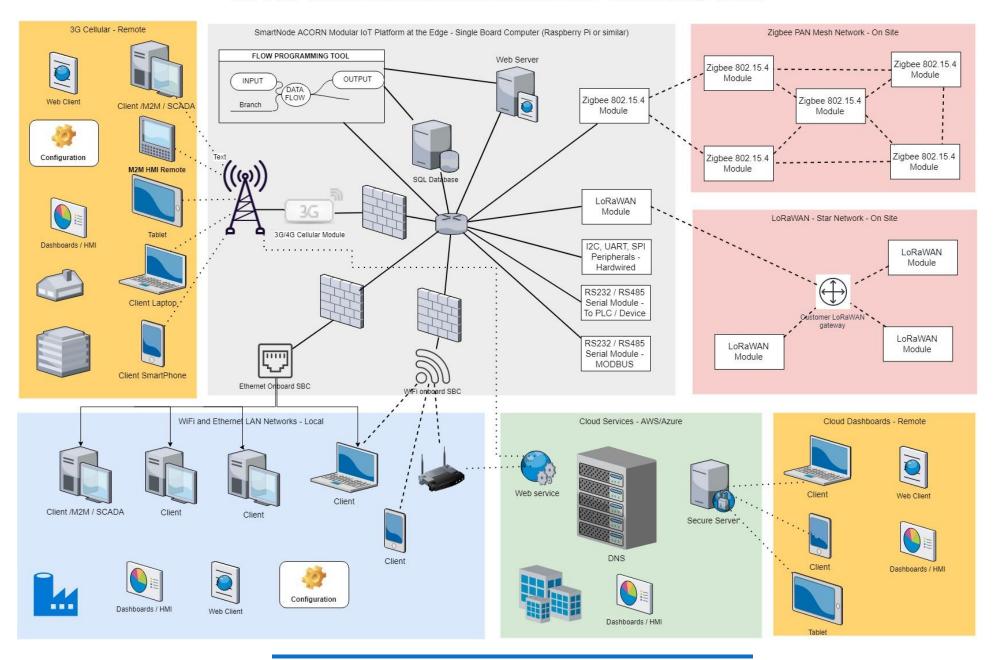
IoT-SmartNode-Gateway – Node Configuration, IO/Comms Status Dashboards – Examples



IoT-SmartNode-Gateway – Flow Programming Platform Editor – Examples



DAYTECH - SMARTNODE ACORN AND CONTROLMESH - NETWORK TOPOLOGY



FOR MORE INFORMATION VISIT: www.daytech.io