



DATASHEET:
**THREE DIGITAL
BATTERY UNIT DI 20104**

PRODUCT SUMMARY

The Delta Integrated DI 20104 is a specially designed battery powered edge device with three digital inputs. It is the perfect solution for remote device monitoring in locations where a power supply is unavailable or unsuitable for other edge devices. It is guaranteed 1 year of battery life using the default transmission settings.

The 20104 employs SNAP OS, the industry's first internet-enabled, wireless mesh network operating system, into the Atmel ATmega128RFA1 single-chip AVR® microcontroller with an integrated transceiver that delivers up to 2M-bits/sec.

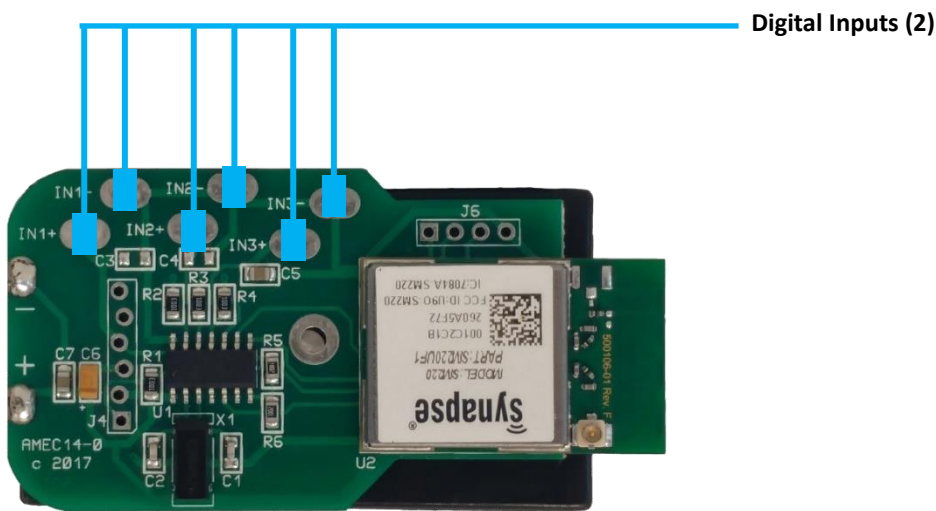
SNAP OS on-board Python interpreter provides rapid application development and over-the-air programming, while Atmel's low-power RF single-chip design saves board space and lowers power consumption. The modules provide up to 16 channels of operation in the ISM 2.4GHz frequency band.

BENEFITS AT A GLANCE

- 3 x Digital Inputs allow for cost effective remote monitoring
- 1 x Relay Control Output to be connected to a relay coil
- Compact design perfect for installation in tight spaces
- Guaranteed 1 year of battery life (using standard settings)
- Transmit power output up to +20 dBm
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- RF Data rate up to 2Mbps
- Powerful processing to manage the data transmitted over the mesh network
- Self-healing mesh network
- -20°C to +60°C industrial operating temperature

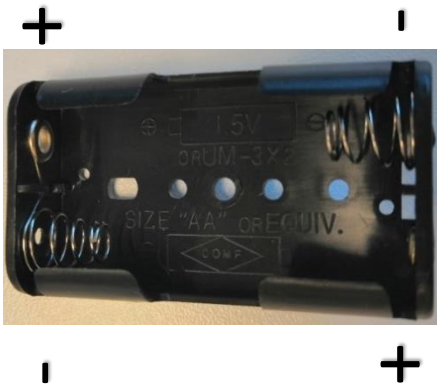
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CONNECTION DIAGRAM



DETAILS

1. Power Supply: 2 x AA Batteries
2. Digital Inputs / Dry Contact / Volt Free Contact / Simple Switch
 1. Either Normally Open or Normally Closed.



COMPLIANCE

- ACMA Radiocommunication (Low Interference Potential Devices) Compliant
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)

APPLICATIONS

- Monitoring remote standalone devices
- Monitoring mobile devices (within a site)
- Monitoring multiple outputs of a single device
- Used in the DI 20102 & 20103 for valve monitoring devices

SPECIFICATIONS

Electrical rating

- 2 x AA Batteries

Dimensions

- 65(57) x 34 x 20mm

Mounting

- Variation board that includes a fixing screw hole is available

PRINCIPLES OF OPERATION

The DI 20104 operates using the SNAP Mesh Network. This innovative and secure technology ensures stable and near instantaneous network communications. In the event that the direct route of communication between units is broken the mesh can reroute communications to ensure continued communication.

CERTIFICATION

- FCC Part 15.247, FCC ID: U90-SM220
- Industry Canada (IC), 7084A-SM220