



# MESH REPEATER UNIT DI 20115

### PRODUCT SUMMARY

The Delta Integrated DI 20115 is a Repeater unit specifically programmed to act as an additional point of communication within a mesh. It is the perfect solution for systems that are spread over a larger distance or for those where there is a greater potential for communications interference. It is housed in a weatherproof enclosure.

The 20115 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**

- Powerful, low cost signal boosting
- Powerful processing to manage the data transmitted over the mesh network
- Weatherproof enclosure for external applications
- RF Data rate up to 2Mbps
- Transmit power output up to +20 dBm
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- RF Data rate up to 2Mbps
- Self-healing mesh network
- -20°C to +60°C industrial operating temperature

#### DATASHEET: MESH REPEATER UNIT DI 20115

# **COMPLIANCE** ACMA Radiocommunication (Low Interference Potential Devices) Compliant SNAP mesh enabled (2.4GHz, IEEE 802.15.4) Securing mesh communication channels **APPLICATIONS** Extending the range of the mesh network Electrical rating **SPECIFICATIONS** 12-24Vdc **Dimensions** 250 x 300 x 205mm Mounting 4 mounting holes on the rear of the enclosure The DI 20115 operates using the SNAP Mesh Network. This innovative and **PRINCIPLES OF** secure technology ensures stable and near instantaneous network **OPERATION** communications. In the event that the direct route of communication between units is broken the mesh can reroute communications to ensure continued communication. **CERTIFICATION** • FFC Part 15.247, FCC ID: U90-SM220 • Industry Canada (IC), 7084A-SM220

