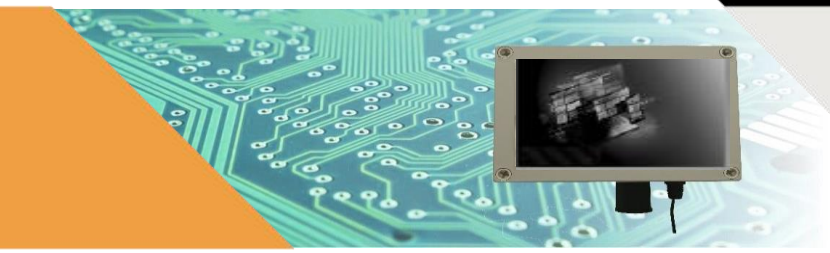
DELTA
INTEGRATED SYSTEMS



DATASHEET:

SITE CONTROLLER UNIT DI 10502

PRODUCT SUMMARY

The Delta Integrated DI 10502 is a versatile gateway which connects the mesh network with the users chosen front end software. It is ideal for both outdoor applications and industrial environments due to its Weatherproof Enclosure. It is suitable for use in any sized system but is generally used in medium to large systems.

The 10502 can integrate multiple applications within a mesh network, managing and processing the data using its powerful Cortex-A52 processor. It is able to utilise an ethernet connection to communicate with the internet allowing it to work with locally run software such as Marchwood's Webserver Software as well as externally run software such as Marchwood's In Motion Software.

BENEFITS AT A GLANCE

- Powerful processing and data management allow for effective and cost-efficient running of complex systems
- Can be utilised with any of our software options
- RESTful Output enables connection to many third-party front-end applications
- Embedded Linux 3.16 0/S (Ubuntu 14.4)
- ARM Cortex—A9 architecture, running at 800 MHz
- 4GB NAND Flash/ 512MB DDR2 SRAM
- 10/100 BestT Ethernet port
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- RF Data rate up to 2Mbps
- Self-healing mesh network
- IP66 weatherproof plastic enclosure makes it ideal for external applications
- -20°C to +60°C industrial operating temperature

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DATASHEET:
SITE CONTROLLER
UNIT DI 10502

COMPLIANCE

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

APPLICATIONS

- Gathering information from the mesh network
- Interfacing/running Marchwood Software options
- Interfacing with third-party software (RESTful output)
- Monitoring the mesh network

SPECIFICATIONS

Electrical rating

- 24Vdc

Dimensions

- 180 x 130 x 50mm (excluding IP rated ethernet gland)
- 180 x 161 x 50mm (including IP rated ethernet gland)

Mounting

- 4 holes on the back of the enclosure

PRINCIPLES OF OPERATION

The DI 10502 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

- FFC Part 15.247, FCC ID: U90-SM220
- Industry Canada (IC), 7084A-SM220
- IP 66 (Bopla Certificate No. 670 Test according to VD 470 Teil 1—DIN EN 60529:2014-09)

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