ARF51 - Digital I/O modules

Highlights

- 4 Digital I/O

- Range up to 20km (@2.4kbps/27dBm)

- 4 pre-programmed modes

- Configuration through dedicated software

- DIN-rail housin

The ARF51 module is a 4 I/O (input/output) AON (All Or Nothing) acquiring data coming from sensors, contacts, or meters to control remote equipment.

Integrating an high performance radio module, the ARF51 allows the design of unique solutions for linking or measuring wireless I/O over long distances (up to 20km) or in disturbed industrial environments.

Flexible, it has 4 intelligent pre-programmed modes:

- Mirror: for point to point applications
- Peer-to-peer: for point / multipoint applications
- Trigger: for relaying alarm applications
- Modbus: return a global view of the system and control / command the system's I/O

All these features make it a unique wireless offset solution perfectly suited to meet the requirements of industrial applications (remote management, maintenance, monitoring ...)

Performances

Range : up to 20km
Power : 500mW
RF radiated power : 27dBm
Sensitivity : -120dBm (BER10-3)
Frequencies : 863-870MHz
RF data rates : 2.4 to 57.6kbps

Local Input/output

4 digital 0/40V NPN inputs
4 digital 0/40V PNP outputs
Refreshing I/O rate: starting at 100ms

Hardware

Connexion to the supervisor : RS485
Configuration : through USB
Serial flow or throughout: 9.6 or 57.6kbps

Firmware

Bus : RTU Modbus

Consumption & needs

Operating temperature : 10 / 36Vd

General information

Dimensions : 105 x 91 x 60mm
DIN-Rail housing
Operating temperature : -10°C to +70°C

References

- **ARF8029AA** ARF51 I/O MODULE