

WPAN Sensor solution

Multi purpose and flexible WPAN sensor/communication solution



This product gives the ability to collect data from sensors virtually anywhere and to transmit them to a central unit.

It makes possible to monitor processes or environments otherwise inaccessible (biomedical parameters in home care giving, forest or land fire or flood, garbage trays status, etc...).

It is also intended to replace wired connection where wiring cost is an issue (aerial platform, cranes, elevators, distributed systems, etc...).

Key features include:

- 2.4GHz IEEE 802.15.4™ compliant connectivity, for worldwide operation
- Certified ZigBee® 2006 Compliant Platform
- Operation with power supply or with battery
- Cost effective for cable replacement

MediCon

Technical data

Wireless	2.4GHz IEEE 802.15.4™ compliant connectivity, for worldwide and unlicensed operation Certified ZigBee® 2006 Compliant Platform (ZCP) * Alternative proprietary, small footprint, high efficiency, and royalties free stacks
Serial	1 x RS232 - RS485
Data integrity and security (wireless)	Hardware CSMA-CA Mechanism Automatic ACK response Hardware security engine (AES-128) Automatic packet retransmit capable
Power supply	External 5V power supply Rechargeable 3,6V Lithium battery 2 x 1,5 V non rechargeable battery (duration up to several years)
I/O	1 x analog output ** 2 x analog input 3 x digital output up to 100mA 5 x digital input / output up to 25mA Other I/O features fully customizable
Network to Application layer	Fully customizable
EEPROM	1 Kbyte

* wireless certifications, testing fee and logo fee required for ZigBee compliance

** shared with Serial port