

Internet-Connected Wireless M2M Network

eDnode

Radio Module rf2IP

The eDnode is a module for connecting equipment to the rf2IP network for communication with eDevice's eDgate which manages the com

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Hardware Interface

The I/O's of the eDnode (straight 15-pin connector with 1,27 mm spacing) for connection to the host equipment may be configured by software to provide different interfaces according to your needs:

- 1 TTL serial port with hardware data flow of between 1200 and 9600 bps;
- 4 analogue digital converters (10 bits);
- 4 binary digital outputs;
- 5 binary digital inputs.

All variables/data sent from the host device over the serial port or other interfaces as above are sent over the rf2IP network and stored into the eDgate memory.

Consumption

To enable tight energy consumption constraints and long-life endurance, it is possible to program the nodes to set sleep and wake-up stages of certain durations in accordance with the application requirements. For particularly low-power supply devices or for devices without any power supply, eDevice proposes a battery-powered eDnode. The battery-powered eDnode using 4 standard LR6 batteries can operate for up to several years.

The eDnode power consumption is 35mA/3V during transmission and 20mA/3V during reception. In sleep mode the consumption does not exceed the μ A range.

Interface Card

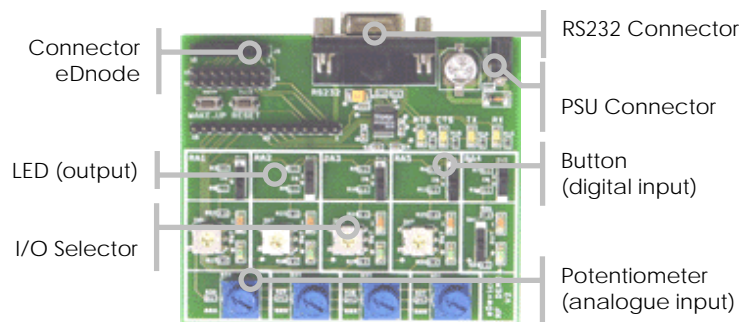
To facilitate the testing and evaluation of the eDnode, eDevice supplies an interface card with several I/O's with each eDkit500. This card enables simple connectivity with the following interfaces:

Name	Number	Description
V _{CC} IN	1	Power supply input
V _{CC} OUT	2	Output of 3.3VDC regulator
GND	3	Ground
RESET	4	External reset (active high)
WAKEUP	5	External wake up (active high)
RX	6	Serial RS232 Receive data
TX	7	Serial RS232 Transmit data

Name	Number	Description
CTS	8	Serial RS232 Clear to send
RTS	9	Serial RS232 Request to send
RA1	10	GPIO or analogue
RA2	11	GPIO or analogue
RA3	12	GPIO or analogue
RA4	13	GPIO
RA5	14	GPIO or analogue

Dimensions: 87 x 80 x 15 mm

eDnode interface card
Scale 1/2



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