

WIRELESS LEVEL MEASUREMENT



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Mission:
"Everywhere" Wireless Sensors

We aim to redesign the concept of wireless networks
sensors solutions for the most innovative approach
to energy management



WIRELESS LEVEL MEASUREMENT

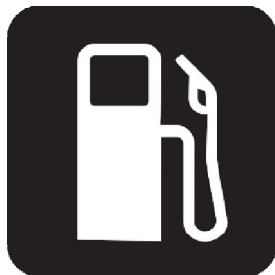
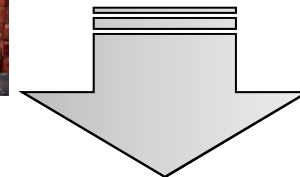
169MHz ISM BAND: FIRST IN EUROPE

Critical Environment

169 MHz Technology

First in Europe to introduce new 169 MHz freq. SRD receiver and transmitter for social alarm applications in UK.

STE has been successfully integrated in market leaders who "designs for leading "tele-care" and "tele-health" solutions, supporting older people and those with long-term needs to live independently, by effectively managing their health and well-being".



169 MHz



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169MHz
NETWORK

169MHz



169MHz TRANSCEIVER
200 mW Power Transmission



169MHz TRANSCEIVER
200 mW Power Transmission



169MHz TRANSCEIVER
200 mW Power Transmission

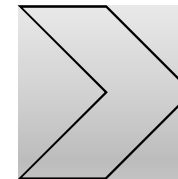
WIRELESS RECEIVER



169 TRX- GSM/GPRS



GAS STATION



WIRELESS LEVEL MEASUREMENT



The environment detection



→ *For Water and Gas Management*

→ *Transportation*

→ *Food Temperature Monitoring*

→ *Environmental monitoring*

→ *Tele-care / Tele-Health*

→ *Asset tracking*

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169MHZ SOLUTIONS
TRANSCEIVER

169 MHz

BK2 TRANSCEIVER

*Low cost, high performances data
based on Analog Device ADF7021-N.*

Applications 169 MHz Band:

- ✓ ***AUTOMATIC METER READING***
- ✓ *Tracing & Asset Tracking*
- ✓ *Social Alarms*
- ✓ *Remote Control*
- ✓ *Domotics*



WIRELESS LEVEL MEASUREMENT



**169MHz SOLUTIONS
TRANSCEIVER**

169 MHz

BK2 TRANSCEIVER

169MHz 200mW

434MHz 25mW

868MHz 25mW

868MHz 200mW

915MHz 20mW

915MHz 200mW



WIRELESS LEVEL MEASUREMENT



169MHZ SOLUTIONS TRANSCEIVER

169 MHz

| TABLE 1 PERFORMANCE DATA BK2x – RECEIVER SECTION | |
|--|---|
| Frequency | 80 to 650 MHz / 842 to 916 MHz ¹ |
| Modulation | 2FSK ÷ GFSK ÷ RCFSK ÷ 3FSK ÷ 4FSK |
| Receiver sensitivity | -122dBm 1 KBPS with 2FSK Modulation |
| Channel Selectivity | 9 KHz 13,5 KHz 18,5 KHz |
| Data rate | Default 1 kbps Max 18 kbps |
| Supply current | Average : 20 mA Power Down : 100 nA |
| Supply Voltage | 3.3 VDC ± 5% |
| Operating temperature range | -40°C ÷ 85°C |
| Storage temperature range | +65°C ÷ 125°C |



| TABLE 1 PERFORMANCE DATA BK2x – TRANSMITTER SECTION | |
|---|---|
| Frequency | 80 to 650 MHz / 842 to 916 MHz ¹ |
| Modulation | 2FSK ÷ GFSK ÷ RCFSK ÷ 3FSK ÷ 4FSK |
| Output RF power | Typical +10 dBm Max +23 dBm |
| Data rate | Default 1 kbps Max 18 kbps |
| Supply current | Active : 25 mA Power Down : 100 nA |
| Supply Voltage | 3.3 VDC ± 5% |
| Operating temperature range | -40°C ÷ 85°C |
| Storage temperature range | +65°C ÷ 125°C |



WIRELESS LEVEL MEASUREMENT



**WIRELESS M-BUS SOLUTIONS
TRANSCEIVER**

M-BUS

NEW RELEASE

BK2-M TRANSCEIVER

WIRELESS M-BUS PROTOCOL

Low cost, high performances data transceiver based on

TEXAS INSTRUMENTS **CC1125**

TEXAS INSTRUMENTS **CC1190**

TEXAS INSTRUMENTS **MSP2272**



Applications supported:

- ✓ **AUTOMATIC METER READING**
- ✓ Tracing & Asset Tracking
- ✓ Social Alarms
- ✓ Remote Control
- ✓ Domotics

SOP 3rd QUARTER OF 2011



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