

# MD40 EVALUATION BOARD AND KIT



## LIEFERUMFANG DES EVALUATION KIT

- 3 Pc. DECT MD40 Evaluation Board
- 3 Pc. DECT MD40 Module
- 3 Pc. USB Connection Cable
- USB Power Supply for 2 MD40 Evaluation Boards
- USB Stick with Programs, Drivers, Data Sheets and- Manual
- Sturdy Plastic Case incl. Rubber Foam Inlay for Secure Storage and Comfortable Transport

## AT A GLANCE

- Easy and quick entry into the development process with the MD40 module
- The MD40 module is connected via a USB to UART bridge to a PC
- PC connection via USB 2.0 (full speed, 12 Mbit / s) mini-B connector
- Royalty free USB driver for Windows 7, XP (Virtual COM port device driver)
- Supports all handshake and modem interface signals
- Supported data formats:
  - Data bits (5,6,7 and 8)
  - Stop bits (1, 1.5, and 2)
  - Parity (odd, even, mark, space, no parity)
- Data rates 300bps to 1Mbps
- Power supply by USB host or USB power supply
- MD40 supply voltage is switchable between 3.3V and 5.0V
- 2.5mm stereo jack to connect a headset
- Ambient light sensor 0-2000lx on the first A/D channel
- Adjustable reference voltage 0-900mV on the second A/D channel
- Keys for digital inputs
- Keys for MD40 Reset and MD40 Firmware Update
- LEDs for digital outputs and GPIO
- LEDs for the data lines RXD, TXD and USB
- Connector for an external MD40 Application
- Power supply for an external MD40 Application (max. 200mA)
- UART, A/D channels and microphone can be switched off (for external application MD40)
- Mounting options for optimized panel mounting (up to IP670)

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## TECHNICAL SPECS

### DIMENSIONS AND WEIGHT (BOARD)

- 148 x 72 x 16 mm
- 52g (without MD40 Modul)

### DIMENSIONS AND WEIGHT (KIT)

- 390 x 290 x 110 mm
- 1200g

### OPERATING TEMPERATURE

- -20°C to +60°C

### POWER SUPPLY

- +5VDC / 500mA over USB

### INPUT VOLTAGE

- 25mA (Board without MD40 Modul)

### INTERNAL POWER SUPPLY UNIT

- +3.3VDC / 750mA (max. 200mA for external HW)

### REFERENCE VOLTAGE

- 0 to 900mV ( $\pm 2\%$ ) adjustable

### LIGHT SENSOR

- 0 to 2000lx ambient light

### PC CONNECTION

- Mini-B USB

### AUDIO CONNECTION

- 2.5 mm Stereo Jack

### USB WALL POWER SUPPLY

- Input: AC 100-240V
- Output: DC +5V / 2A (max. on 2 USB connectors)

### OPERATING SYSTEM

- Windows XP (32-Bit), Windows 7 (32-Bit, 64-Bit)

### USB STICK

- 2GB

## ORDER NUMBERS



**MD40 EVALUATION KIT**  
75-20-013910



**EMPTY CASE INCL. INLAY**  
55-09-020116



**MD40 EVALUATION Board**  
75-20-013611



**USB STICK WITH DRIVERS**  
51-12-002000



**USB CONNECTION CABLE**  
51-12-040405



**USB WALL POWER SUPPLY**  
(item similar to left photo)  
67-06-061716



**MD40 MODULE**  
11-02-MD40-S00