

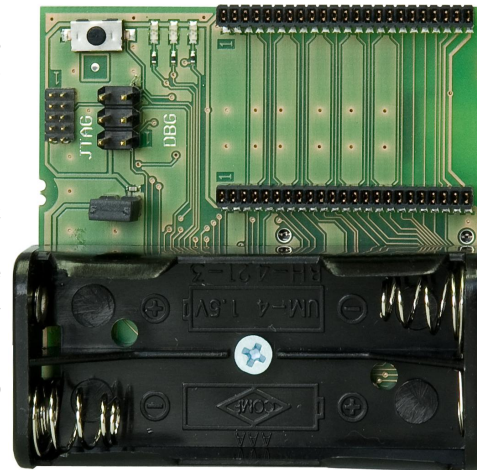


Adapter deRFtoRCB

ZigBee® / 6LoWPAN / RF4CE / WirelessHart

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2010-04-16
Art. no. 28216
Rev. 1.0

- § The adapter deRFtoRCB is intended for fast start-up and stand-alone operation of dresden elektronik's deRFmega radio module range and offers RCB functionality.
- § Programming is made over the 10 pin JTAG interface. The 6 pin connector offers a TTL-level UART for serial communication and can be attached directly to a PC using the RS232 level shifter. On the back of the adapter are two 30 pin I/O-Connectors according to the RCB interface. A possible application is the use with a Sensor Terminal Board.
- § All deRFmega radio modules can be simply attached to the 23 pin female connector. For stand-alone operation a battery box for 2 AAA batteries is intended.
- § The control and display elements are connected to the appropriate port pins just as at any RCB module.

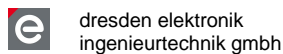
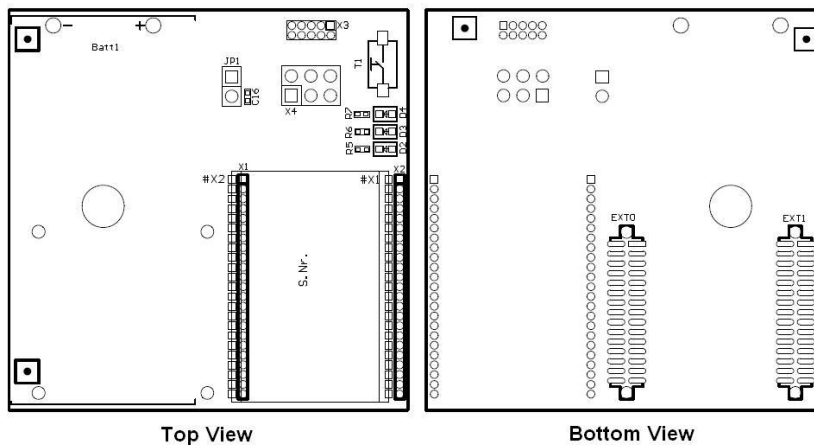


Technical Data

Dimensions	52 x 52 mm
Control and display elements	3 x LED (red) 1 x Button
Power supply	2 AAA batteries (1.8 – 3.6V)
Power consumption	Depending on plugged radio module
Connections	2 x 23 Pin Connector (for deRF radio modules) 2 x 30 Pin I/O Connector (for STB) 1 x 10 Pin Connector (JTAG) 1 x 6 Pin Connector (UART) 1 x JTAG, 1 x UART

Interfaces

Overview



dresden elektronik
ingenieurtechnik gmbh

www.dresden-elektronik.de

Enno-Heidebroek-Str. 12
D-01237 Dresden, Germany

E-Mail: wireless@dresden-elektronik.de
Phone: +49 351 – 31 85 0-0 Fax: -10

Technical Data

Overview

Contact



Pin Configurations

X1				X2			
1:	DGND	13	PD7/T0	1:	VCC	13	PF1/ADC1
2:	DGND	14:	PD3/TXD1	2:	DGND	14:	PE6/T3
3:	PB5	15:	PD1/SDA	3:	PE0/RXD0	15:	PF4/TCK
4:	PB7	16:	PG5	4:	PD2/RXD1	16:	PE7
5:	PB4	17:	PD0/SCL	5:	PE1/TXD0	17:	PF5/TMS
6:	PB6	18:	PG2	6:	PD6/T1	18:	PF2/ADC2
7:	PB3/MISO	19:	RSTN	7:	PE2/XCK0	19:	PF6/TDO
8:	PB0	20:	PG1	8:	PE3	20:	RSTON
9:	PB2/MOSI	21:	AREF	9:	PD4	21:	PF7/TDI
10:	CLKI	22:	DGND	10:	PE4	22:	DGND
11:	PB1/SCK	23:	VCC	11:	PF0/ADC0	23:	DGND
12:	PD5/XCK1			12:	PE5		

EXT0				EXT1			
1:	PB6/PCINT6	2:	PB7	1:	PB1 / SCK	2:	DGND
3:	RSTN	4:	Vcc	3:	PE7	4:	PE6
5:	DGND	6:	XTAL2	5:	PE5	6:	PE4
7:	XTAL1	8:	DGND	7:	PE3	8:	PE2
9:	PD0	10:	PD1	9:	PE1 / MISO	10:	PE0/MOSI
11:	PD2	12:	PD3	11:	AGND	12:	AREF
13:	PD4	14:	PD5	13:	PF0	14:	PF1
15:	PD6	16:	PD7	15:	PF2	16:	PF3
17:	PG0	18:	PG1	17:	PF4	18:	PF5
19:	DGND	20:	DGND	19:	PF6	20:	PF7
21:	PC0	22:	PC1	21:	Vcc	22:	DGND
23:	PC2	24:	PC3	23:	PA0	24:	PA1
25:	PC4	26:	PC5	25:	PA2	26:	PA3
27:	PC6	28:	PC7	27:	PA4	28:	PA5
29:	DGND	30:	PG2	29:	PA6	30:	PA7

Connections

Scope of delivery

deRFtoRCB

article no. 28216

Scope of delivery

Accessories (optional)

JTAG adapter
RS232 level shifter

article no. 27863
article no. 28560

Accessories (optional)

Development Boards

Sensor Terminal Board

article no. 26533

Development Kit

deRFdevelopment Kit RFmega128

article no. 28388

Radio module versions

Radio module deRFmega128-22A001
Radio module deRFmega128-22A021

article no. 28182
article no. 28498

Order online: <http://www.dresden-elektronik.de/shop/cat4.htm>

– technical information subject to change without notice –



dresden elektronik
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Contact

Enno-Heidebroek-Str. 12
D-01237 Dresden, Germany

E-Mail: wireless@dresden-elektronik.de
Phone: +49 351 – 31 85 0-0 Fax: -10