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Adapter board with deRFmega128 22T00 | 22T02

Datasheet

- The adapter boards 22T00 and 22T02 are already equipped with the radio modules deRFmega128-22M00 and deRFmega128-22M10 respectively. The base boards convert the radio modules into a pin compatible version of the evaluation radio modules deRFmega128-22A00 and 22A02 with the two 23 pin male 1.27 mm pitch connectors.
- The deRFmega128-22M00 is affixed onto the adapter board 22T00. The deRFmega128-22M10 is affixed onto the adapter board 22T02.
- Soldered on the adapter board the radio modules allow access to almost all port pins of the ATmega128RFA1. Due to the pin compatible design all signals are available in same way as on the larger sized evaluation radio modules deRFmega128-22A00 and 22A02.
- The software developed for the evaluation modules runs on the deRFmega128-22T00 | 22T02 boards without changes.
- The adapter board together with the appropriate small sized OEM radio modules is intended to be applied onto deRFnode or deRFbreakout board for running e.g. wireless sensor networks.

deRFmega128-22T00

deRFmega128-22T02

Pin Assignment

Pin Assignment 22T00 | 22T02

Pin	LGA pad	Module	Pin	LGA pad	Module	Pin	LGA pad	Module
1:	2, 50	VCC	17:	23	PB3/MISO/ PCINT3/PDO	33:	33	PE4/OC3B/ INT4
2:	1, 31, 44, 49, 51	GND	18:	26	PB6/OC1B/ PCINT6	34:	40	PF0/ADC0
3:	39	AREF	19:	24	PB4/OC2/ PCINT4	35:	34	PE5/OC3C/ INT5
4:	7	PG1/DIG1	20:	27	PB7/OC0A/ OC1C/PCINT7	36:	41	PF1/ADC1
5:	4	RSTN	21:	25	PB5/OC1A/ PCINT5	37:	11	PE6/T3/INT6
6:	8	PG2/AMR	22:	1, 31, 44, 49, 51	GND	38:	48	PF4/ADC4/ TCK
7:	16	PD0/SCL/ INT0	23:	1, 31, 44, 49, 51	GND	39:	10	PE7/ICP3/ CLKO/INT7
8:	9	PG5/OC0B	24:	2, 50	VCC	40:	47	PF5/ADC5/ TMS
9:	17	PD1/SDA/ INT1	25:	1, 31, 44, 49, 51	GND	41:	42	PF2/ADC2/ DIG2
10:	12	PD3/TXD1/ INT3	26:	28	PE0/RXD0/ PCINT8	42:	46	PF6/ADC6/ TDO
11:	15	PD7/T0	27:	13	PD2/RXD1/ INT2	43:	5	RSTON
12:	18	PD5/XCK1	28:	29	PE1/TXD0	44:	45	PF7/ADC7/ TDI
13:	22	PB1/SCK/ PCINT1	29:	19	PD6/T1	45:	1, 31, 44, 49, 51	GND
14:	14	CLKI	30:	30	PE2/XCK0/ AIN0	46:	1, 31, 44, 49, 51	GND
15:	21	PB2/MOSI/ PCINT2/PDI	31:	32	PE3/OC3A/ AIN1			
16:	20	PB0/SSN/ PCINT0	32:	37	PD4/ICP1			

Technical Data

Technical Data

Dimensions	35.0 x 24.0 x 9.2 mm (22T00) 30.0 x 23.0 x 9.2 mm (22T02)
deRFmega128-22M00 **deRFmega128-22M10**	For technical data of the appropriate radio module refer to the datasheet deRFmega128-22M00 | 22M10 and the user manual.

Order Information

Scope of delivery	**Part number**
Adapter board deRFmega128-22T00	BN-034224
Adapter board deRFmega128-22T02	BN-034476
Modules	
deRFmega128-22M00	BN-034491
deRFmega128-22M10	BN-034492

Order online: https://shop.dresden-elektronik.de

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