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AE-ISP-ARM

DIP28/BH20 specialized adapter for in system programming of ARM/Cortex microcontrollers



Description:

DIP28/BH20 specialized adapter for in system programming of ARM/Cortex microcontrollers

Supported Devices:

Click the device programmer model below to get an appropriate list of the devices supported by this programmer with this adapter:

- [ChipProg-48](#)
- [ChipProg-G4](#)
- [ChipProg-40](#)

[Adapter wiring diagram](#)

Connections to the target devices:

- [AE-ISP-ARM connection for ARM/Cortex microcontrollers](#)

AE-ISP-ARM connection for ARM/Cortex microcontrollers

Supported Devices:

Click the programmer model below to get an appropriate list of the devices supported by the adapter:

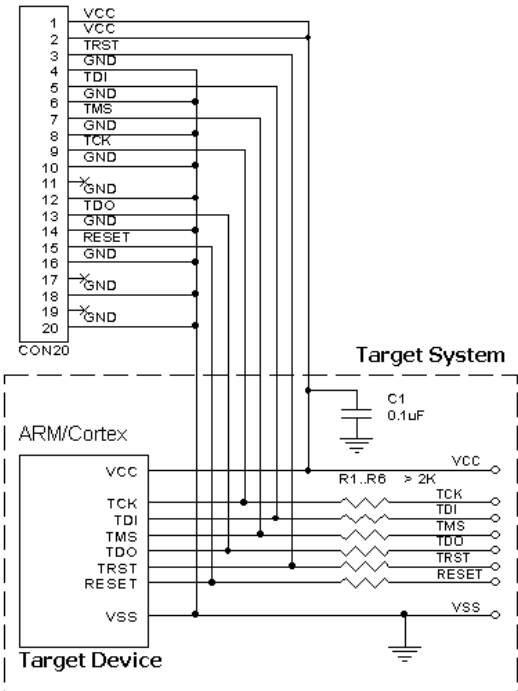
- [ChipProg-48](#)
- [ChipProg-G4](#)
- [ChipProg-40](#)

Recommended connection:

ISP Connector

1	VCC
2	VCC
3	TRST
4	GND
5	TDI
6	GND
7	TMS
8	GND
9	TCK
10	GND
11	TDO
12	GND
13	RESET
14	GND
15	GND
16	GND
17	GND
18	GND
19	GND
20	GND

Target System



Powering the target device:
There are two alternative options for powering the targets:

1. The target gets power from the programmer (Vdd). This is possible only if the target does not consume too much energy. A capacity of the target power circuitry should not exceed 50 uF.
2. The target gets power from a built-in or external power supply. In this case the power output from the programmer should not be connected with the target. The target system should be tolerant to applying logical signals with the voltage levels exceeding the voltages on the target.

NOTE! It is strictly prohibited to power the target from both the programmer and built-in or external power supply simultaneously.

Isolating resistors:
Purpose of the R1..R6 resistors is to isolate the programmed chip from rest of target system. Recommended value of resistors R1..R6 is 2k or more. You can also use jumpers instead of the resistors.

ISP characteristics:

1. Programmer's output capability:
 - 1.1 Vcc - 80 mA;
 - 1.2 Vpp - 50 mA;
 - 1.3 logical pins - 5 mA.
2. The cable length should be less then one foot.

Table of connections of the adapter output socket to the device pins:				
Adapter Output connector, BH-20		Target Device		
1		VCC		
2		VCC		
3		TRST		
4		GND		
5		TDI		
6		GND		
7		TMS		
8		GND		
9		TCK		
10		GND		
11		-		
12		GND		
13		TDO		
14		GND		
15		RESET		
16		GND		
17		-		
18		GND		
19		-		
20		GND		
Adapter Connection Table:				
DIP -28	BH-20	74AHC126	74AHC126	C1, 0.1uF
1	1,2	3		
2	5	6		
3	13	8		
4	-			
5,14	4,6,8,10,12,14,16,18,20	7	7,12,13	1
6		2		
7		1		
8		5		
9		14	14	2
10		9		
11		10		
12		12		
13		13		
15		4		
16			2	
17			1	
18			5	
19			4	
20			9	
21			10	
22				
24	15		3	
25	-			
26	3		6	
27	7		8	
28	9	11		

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