

# Device Programmers and Development Tools for Microcontrollers

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To the Target

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# ChipProg-ISP BH14/BH20 specialized adapter for in system programming of ARM microcontrollers .

To the Device

#### Description:

ChipProg-ISP BH14/BH20 specialized adapter for in system programming of ARM 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-ISP

### Adapter wiring diagram

## Connections to the target devices:

AS-ISP-ARM connection for ARM/Cortex microcontrollers

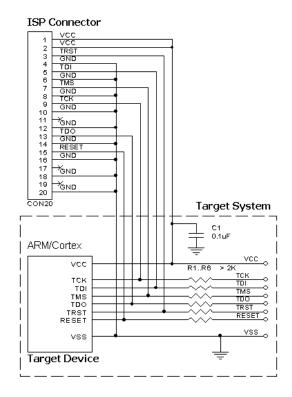
# AS-ISP-ARM connection for ARM/Cortex microcontrollers

#### Supported Devices:

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

ChipProg-ISP

# Recommended connection:



Powering the target device:

There are two alternative options for powering the

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.

NOTEL 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.

device pins: Adapter Out	nut			
connector, E		rice		
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			
-	nection Table:			
From Programmer Output Connector, BH-14	To the Target Device BH-20	Status and Control Signals from Programmer	Program Signals	
1	1,2		VCC	
2	9		TCK	
3	5		TDI	
4	7		TMS	
5	13		TDO	
6	3		TRST	
7	-		-	
8	-		-	
9	4,6,8,10,12,14,16,18,20	)	GND	
10	15		RESET	
11		/Start		
12		/Error		
		-		
13		/Good		

corresponding LEDs on the programmer case.

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