CooCox CoLinkEx

User Manual

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CooCox CoLinkEx

CoLinkEx is a hardware debugging adapter which supports SW debugging and supports both ARM Cortex M3 and Cortex M0 devices, it supports debugging in CooCox software and Keil Realview MDK.

Fetures:
 Free Supports Cortex M0 and Cortex M3 devices Supports SW debugging Supports JTAG debugging Supports CoFlash, CoIDE, MDK and IAR

Requirements:

Hardware:

- > 512MB memory
- 20MB Disk space

Operating Systems:

Windows XP / Windows Vista / Windows 7

Support Software

- ➤ Keil RealView MDK v4.03 or higher
- CooCox CoIDE v1.4.0 or higher

Support Series:

- Atmel ATSAM3U Series
- Energy Micro EFM32 Series
- TI LM3S Series
- Nuvoton Numicro Series
- NXP LPC17xx LPC13xx LPC12xx LPC11xx Series
- > ST STM32F10x STM32F4x Series
- Holtek HT32 Series

Connection Figure:



Preparation:

Before you use this development kit, you need to install CoLinkEx Driver first. The CoLinkEx USB drivers are different according to the OS of your PC, please visit <u>http://www.coocox.org/Colinkex.htm</u> to download the right one and install it as below:

1. Double Click the EXE file, enter the installation interface, click "Next".



2. Select the installation location, click "Next".

🚰 Setup - CooCox ColinkEx USB Driver
Select Destination Location Where should CooCox ColinkEx USB Driver be installed?
Setup will install CooCox ColinkEx USB Driver into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
D:\Program Files\CooCox\CooCox ColinkEx USB Driver Browse
At least 18.8 MB of free disk space is required.
< Back Next > Cancel

3. Click "Install".

🔂 Setup - CooCox ColinkEx USB Driver	
Ready to Install Setup is now ready to begin installing CooCox ColinkEx USB Driver on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: D:\Program Files\CooCox\CooCox ColinkEx USB Driver	*
<u> </u>	
< Back Install	Cancel

4. Click "Finish".

🔀 Setup - CooCox ColinkEx U	ISB Driver
	Completing the CooCox ColinkEx USB Driver Setup Wizard Setup has finished installing CooCox ColinkEx USB Driver on your computer. Click Finish to exit Setup.
	Finish

*Please ensure the firmware of your ColinkEx is the latest version. See how to update: <u>http://www.coocox.org/CoLinkGuide/CoLinkDIY.htm</u>.

After that, you can use it in MDK or CoIDE environment.

Coo	Cox	CoLinkEx V1.1

Configuration:

♦ CooCox CoIDE

🚺 Debug Configuratio	15	X
Create, manage, an	d run configurations	Ť.
Evpe filter text	★ Debugger ∑ DownLoad Hardware Adapter ColinkEx Adapter ColinkEx ColinkEx Startup ColinkEx ColinkEx Run to Colink-CopenOCD Stellaris-ICDI KT-Link Reset Moc NGX-USB-JTAG picoJTAG OpenJTAG ST-Link Amontec-JTAGkey J-Link	Port SWD
		Close

Debug Configurations	5 X
Create, manage, and	l run configurations
Evpe filter text Funce Cortex-M Appli LPC11C14. Launch Group Filter matched 3 of 3 iter	Debugger DownLoad Hardware Adapter ColinkEx Startup Port Startup Run to main Advance Reset Mode SYSRESETREQ Startup Advance Reset Mode SYSRESETREQ Apply Revert
	Close

♦ Keil Realview MDK

Before you use it in MDK, you need to download and install CoMDKPlugin first, please visit <u>http://www.coocox.org/CoLinkGuide/CoMDKPlugin.html</u> to get the details. Just install it with the following simple steps:

1. Double Click the EXE file, enter the installation interface, click "Next".

🚏 Setup - CooCox MDK Plugi	
	Welcome to the CooCox MDK Plugin Setup Wizard
	This will install CooCox MDK Plugin version 1.4.1 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

2. Select the installation location, click "Next".

🚏 Setup - CooCox MDK Plugin	
Select Destination Location Where should CooCox MDK Plugin be installed?	
Setup will install CooCox MDK Plugin into the following folder.	
To continue, click Next. If you would like to select a different folder, cli	ck Browse.
D:\Program Files\CooCox	Browse
At least 5.0 MB of free disk space is required.	
< Back Next >	Cancel

3. Click "Install".

🔂 Setup - CooCox MDK Plugin	
Ready to Install Setup is now ready to begin installing CooCox MDK Plugin on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: D:\Program Files\CooCox	-
	-
I	
< Back Install	Cancel

4. Click "Finish".

🕞 Setup - CooCox MDK Plugi	n 📃 🗆 🗶
	Completing the CooCox MDK Plugin Setup Wizard Setup has finished installing CooCox MDK Plugin on your computer. Click Finish to exit Setup.
	Finish

Now you need to do the following configurations while use it in MDK:

1. **Debug** -> **Use** of the configuration selects "CooCox Debugger".

Options for Target 'Smpl_DrvI2C'	×
Device Target Output Listing User C/C++ Asm Linker Debug Vtilities	
C Use Simulator Settings C Use: CooCox Debugger ▼ Limit Speed to Real-Time ULINK Cortex Debugger ▼ ✓ Load Application at Startup ✓ Run to main() ✓ Load Atlera Blaster Cortex Debugger > Initialization File: ✓ Load ✓ Load ✓ Load ✓ Load ✓ Load ✓ Simulator.ini Edit Edit Cortex-M3 J-LINK	Settings main() Edit
Restore Debug Session Settings Restore Debug Session Settings Restore Debug Session Settings Restore Emlink Debugger Brakpoints Toolbox Memory Display Memory Display Memory Display	
CPU DLL: Parameter: Driver DLL: Parameter: SARMCM3.DLL	_
Dialog DLL: Parameter: Dialog DLL: Parameter: TARMCM1.DLL TARMCM1.DLL	
OK Cancel Defaults	Help

2. Click **Settings**, select "ColinkEx" for the Adapter.

CooCox Target D	river Setup				×
Debug Flash D	ownload				
USB Adapter -		SWD Device			1
Adapter:	Nulink	IDCODE	Device Name		
Port:	Colink ColinkEx	0x0BB11477	ARM CoreSigh	ARM CoreSight SW-DP	
Max Clock:	SUUKHZ	Reset Options Reset Option:	SYSRESETREQ 💌	Cache Options	
		ОК	Cancel		