# AT91SAM9G45-EVK Android User Manual





#### **Revision History**

Rev	Date	Description
1.0	2011-05-27	Initial version



# Catalogue

Chapter 1: How to install & compile Linux source	4 -
1.1 First build the working directory	4 -
1.2 Install the cross compiler tools	4 -
1.3 Install and compile AT91Bootstrap	4 -
1.4 Install and compile U-boot	4 -
1.5 Install and compile Linux source code	5 -
Chapter 2: How to install Android compiler environment	6 -
2.1 First install the environment	6 -
2.2 Download the Android source code	6 -
2.3 Installing the patch codes	6 -
Chapter 3: How to compile Android system	7 -
3.1 Configure and compile Android	7 -
3.2 Making jffs2 file	7 -
Chapter 4: Download Linux images to ATMEL SAM9G45 ARM9 Board	8 -
4.1 Install download tools	8 -
4.2 Connect ATMEL SAM9G45 ARM9 Board with SAM-BA	8 -
4.2.1 Install AT91SAM9G45-EVK's USB driver	8 -
4.2.2 Connect the ATMEL AT91SAM9G45-EVK ARM9 Board	8 -
4.3 Download Linux images	8 -
4.3.1 Auto download	8 -
4.3.2 Manual download	8 -
Chapter 5: How to use the Android System	5 -
5.1 How to mount & use SD card	5 -
5.2 Using USB keyboard	7 -
5.3 Testing Audio output	7 -
5.4 Testing Ethernet connection	9 -
5.5 Testing Wi-Fi connection	11 -
Appendix A: After-sales Service 1	14 -
Customer Service: 1	14 -
Technical Support: 1	14 -
Notes: 1	14 -



# Chapter 1: How to install & compile Linux source

## **1.1 First build the working directory**

# mkdir /home/Linux # cd /home/Linux

Copy 05-Linux\_Source and 07-Anriod\_Source to the package of /home/Linux. Please do not modify the package name.

## 1.2 Install the cross compiler tools

# tar xvjf

05-Linux\_Source/Official\_Code/CrossTool/arm-2007q1-10-arm-none-linux-gnueabi.tar.bz 2 –C /usr/local

## 1.3 Install and compile AT91Bootstrap

#### Install

# unzip 05-Linux\_Source/Official\_Code/AT91Bootstrap/Bootstrap-v1.14.zip

#### Compile

```
# cd Bootstrap-v1.14/board/at91sam9g45ekes/nandflash/
# make clean
# make CROSS_COMPILE=/usr/local/arm-2007q1/bin/arm-none-linux-gnueabi-
# Is
```

Now you can see the file "nandflash\_at91sam9g45ekes.bin", we have successfully installed & compiled AT91Bootstrap.

## 1.4 Install and compile U-boot

#### Install

```
# tar xvjf 05-Linux_Source/Official_Code/u-boot/u-boot-1.3.4.tar.bz2 -C ./
# cd u-boot-1.3.4/
```

#### Compile



```
# make distclean
# make clean
# make at91sam9g45ekes_nandflash_config
# make CROSS_COMPILE=/usr/local/arm-2007q1/bin/arm-none-linux-gnueabi-
# ls
```

Now you can see the file "u-boot.bin", we have successfully installed & compiled U-boot.

## 1.5 Install and compile Linux source code

#### Install

# tar xvjf 05-Linux\_Source/Official\_Code/linux\_kernel\_2.6.30/linux-2.6.30.tar.bz2 -C ./ # cd linux-2.6.30/

# patch -p1 < ../05-Linux\_Source/Official\_Code/linux\_kernel\_2.6.30/2.6.30-at91.patch.gz
# tar xvzf ../05-Linux\_Source/Official\_Code/linux\_kernel\_2.6.30/2.6.30-at91-exp.4.tar.gz
-C ./</pre>

# for p in 2.6.30-at91-exp.4/\*; do patch -p1 < \$p; done

# patch -p1 < ../07-Anriod\_Source/patch/Kernel\_patch/andriod\_all\_patches.diff</pre>

#### Configure the file (according to the LCD size)

LCD type	Configure file
LCD_4.3	AT91SAM9G45-EVK_4.3LCD_Android
LCD_7.0	AT91SAM9G45-EVK_7.0_LCD_Android
LCD_10.2	AT91SAM9G45-EVK_10.2_LCD_Android

# cp arch/arm/configs/AT91SAM9G45-EVK\_4.3LCD\_Android .config

#### Compile

# make ARCH=arm menuconfig# make uImage ARCH=armCROSS\_COMPILE=/usr/local/arm-2007q1/bin/arm-none-linux-gnueabi-



# Chapter 2: How to install Android compiler environment

#### 2.1 First install the environment

See: <u>http://source.android.com/source/initializing.html</u> Notice: Select JDK version 1.6

#### 2.2 Download the Android source code

See: http://source.android.com/source/downloading.html

Note: we have offered the andriod-2.3.1\_r1 version patches, so use the command as follows:

\$ repo init -u git://android.git.kernel.org/platform/manifest.git -b Android-2.3.1\_r1

## 2.3 Installing the patch codes

Build a working directory package in the section 2.2,we assume that the package name is Android-2.3.1\_r1

Copy 07-Android/patch/Android\_Patch/atmel.tar.bz2 to /Android-2.3.1\_r1/device, and execute the command as follows:

# cd Android-2.3.1\_r1/device

# tar xvjf atmel.tar.bz2

Copy 07-Android/patch/Generate\_jffs2\_image/Generate\_jffs2\_image.tar.bz2 to /Android-2.3.1\_r1

- 6 -



# **Chapter 3: How to compile Android system**

## 3.1 Configure and compile Android

# cd Android-2.3.1\_r1(Notice: we are using the same package name as used in section
2.2)
# make clean
# source build/envsetup.sh
# partner\_setup sam9g45

# choosecombo Device release sam9g45 eng

# make

## 3.2 Making jffs2 file

#cd Android-2.3.1\_r1
# tar xvjf Generate\_jffs2\_image.tar.bz2
# cd Generate\_jffs2\_image
# ./jffs2.sh -b sam9g45 -l 4.3 //This assign the LCD size





# Chapter 4: Download Linux images to ATMEL SAM9G45 ARM9 Board

## 4.1 Install download tools

Please refer to the 03-tools\SAM-BA\sam-ba install

#### 4.2 Connect ATMEL SAM9G45 ARM9 Board with SAM-BA

#### 4.2.1 Install AT91SAM9G45-EVK's USB driver

Please refer to 03-tools\SAM-BA\the board driver install

#### 4.2.2 Connect the ATMEL AT91SAM9G45-EVK ARM9 Board

First, you should open the JP2 jumper wire; then double click the SAM-BA v2.9 icon in the PC's desktop; then it will display the dialog:

💽 SAH-BA 2.9	
Select the connection : \usb\ARM0 Select your board : at91sam9g45-ek	▼ ▼
Connect	Exit

Click 'Connect' to connect the ATMEL AT91SAM9G45-EVK ARM9 Board with Scand close the JP2 jumper wire.

#### 4.3 Download Linux images

#### 4.3.1 Auto download

After following step 2.1 and step 2.2, open the 02-Images\Linux\_images\ AT91SAM9G45-EVK \_Linux\_4.3\_LCD, click on download.bat file. By this SAM-BA will start downloading the Linux images to the board automatically (please be patient it may take longer then 3min.). After image download, connect the development board with the PC (Hyper Terminal) using serial port, then reset the board, you will see the Linux startup information in the HyperTerminal.

#### 4.3.2 Manual download

> Under below shows the NandFlash demo Memory map



File Name	NANDFLASH	File Address
at91sam9g45-Android-2.3.1_r1- ver1.0.jffs2	Android	0x500000
ulmage	linux kernel	0x200000
ubootEnvtFileNandFlash.bin	u-boot env	0x60000
u-boot.bin	u-boot	0x20000
nandflash_at91sam9g45ekes.bin	bootstrap	

Use SAM-BA to download Linux image

✓ After following step2.1 and step2.2, you can get SAM-BA compile console as show below, and choose "NandFlash".

File Script File Link Help	
at91sam9m10 Memory Display	
Start Address : 0x300000     Refresh     Display format     Applet traces on       Size in byte(s) : 0x100     C ascii C 8-bit C 16-bit © 32-bit     infos ▼	DBGU Apply
0x00300000 0xEA000014 0xEAFFFFFE 0xEA000063 0xEAFFFFFE	<u> </u>
0x00300010 OxEAFFFFFE OxEAFFFFFE OxEAFFFFFE OxE3AODOO8	
0x00300020 0xE58BD128 0xE59AD04C 0xE59CD004 0xE21DD001	step
4	
Send File Name : Send File Receive File Name : Receive File	
Address : 0x0 Size (For Receive File) : 0x1000 byte(s) Compare sent file with r	nemory
Scripts	
Enable Dataflash (SPI0 CS0) 💌 Execute	
ading history file 0 events added	<u> </u>
AMEDA CONSULE OISPIAY ACTIVE (TCID.4.13 / TKO.4.13) AT91-ISP v1.13) 1 %	

From this console select NandFlash then execute the "enable NandFlash" script  $\checkmark$ as shown below.

## element 4.com



	SAM-BA 2.9 - at91sam9g45-ek
	File Script File Link Help
	rat91sam9m10 Memory Display
	Start Address : 0x300000       Refresh       Display format       Applet traces on DBGU         Size in byte(s) : 0x100       C ascii C 8-bit C 16-bit • 32-bit       infos • Apply
	0x00300000 0xEA000014 0xEAFFFFFE 0xEA000063 0xEAFFFFFE
	0x00300010 OxEAFFFFFE OxEAFFFFFE OxEAFFFFFE OxE3AOD008
	0x00300020 0xE58BD128 0xE59AD04C 0xE59CD004 0xE21DD001
	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File
	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File
step 2 _	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File Send File Name : Send File Receive File Name : Send File
step 2 _	DDRAM       DataFlash AT45DB/DCB       EEPROM AT24       NandFlash       NorFlash       SRAM       SerialFlash AT25/AT26         Download / Upload File
step 2 _	DDRAM       DataFlash AT45DB/DCB       EEPROM AT24       NandFlash       NorFlash       SRAM       SerialFlash AT25/AT26         Download / Upload File       Send File       Send File       Send File         Send File Name :       Send File       Receive File       Receive File         Address :       Qx0       Size (For Receive File) :       0x1000       byte(s)       Compare sent file with memory         Scripts       Scripts       Send File       Send File       Send File
step 2	DDRAM       DataFlash AT45DB/DCB       EEPROM AT24       NandFlash       NorFlash       SRAM       SerialFlash AT25/AT26         Download / Upload File       Send File       Send File       Send File         Send File Name :       Send File       Receive File       Receive File         Address       0x0       Size (For Receive File) : 0x1000       byte(s)       Compare sent file with memory         Scripts       Enable NandFlash       Execute       Execute
step 2	DDRAM       DataFlash AT45DB/DCB       EEPROM AT24       NandFlash       NorFlash       SRAM       SerialFlash AT25/AT26         Download / Upload File       Send File Name :       Send File       Send File         Receive File Name :       Send File       Receive File       Receive File         Address       0x0       Size (For Receive File) : 0x1000       byte(s)       Compare sent file with memory         Scripts       Enable NandFlash       Execute       Execute
step 2 step 1	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File Send File Name : Beceive File Name : Address : 0x0 Size (For Receive File) : 0x1000 byte(s) Compare sent file with memory Scripts Enable NandFlash Execute -I- Buffer address : 0x70003AA0
step 2 step 1 step 3	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File Send File Name : Receive File Name : R

#### Note:

Step 1: Enable Nandflash;

Step 2: Execute;

Step 3: Successfully Enable NandFlash.

- 🗫 5AM-BA 2.9 at91sam9g45-ek \_ 🗆 × File Script File Link Help at91 sam9m10 Memory Display Applet traces on DBGU--Display format Start Address : 0x300000 Refresh 🔿 ascii 🔿 8-bit 🔿 16-bit 🕥 32-bit infos Apply Size in byte(s): 0x100 0x00300000 0xEA000063 OxEA000014 OXEAFFFFFE OXEAFFFFFE \* 0x00300010 OXEAFFFFFE OXEAFFFFFE OXEAFFFFFE OxE3A0D008 0x00300020 OxE58BD128 OxE59AD04C OxE59CD004 OxE21DD001 -• DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File Send File Name : Ê Send File step 2 -Receive File Name : Ê **Receive File** Compare sent file with memory Address : 0x0 Size (For Receive File) : 0x1000 byte(s) Scripts step 1 Send Boot File Execute I- Eile size : 0x1478 hyte(s). \* step 3 Writing: 0x1478 bytes at 0x0 (buffer addr : 0x70003AA0) 0x1478 bytes written by applet AT91-ISP v1.13) 1 %
- ✓ Now follow the below steps to download nandflash\_at91sam9g45ekes.bin

Note:

Step 1: choose "Send Boot File";

Step 2: Execute, and you can pick up the file "nandflash\_at91sam9g45ekes.bin"; Step 3:Download nandflash\_at91sam9g45ekes.bin successfully.



File Corint File	ink Halp					
- He Scipt File						
Start Address : 0x300 Size in byte(s) : 0x100	000 Refresh	Display format Cascii C 8-	bit 🤉 16-bit 💽 32	-Applet trace	es on DBGU	
0x00300000	0xEA000014	OXEAFFFFFE	0xEA000063	OXEAFFFFFE	<u> </u>	
0x00300010	OXEAFFFFFE	OXEAFFFFFE	OXEAFFFFFE	OxE3 AODOO8		
0x00300020	OxE58BD128	OxE59AD04C	OxE59CD004	0xE21DD001	<b>_</b>	step 1
<u> </u>					•	
		OM AT24 NandE	lash   NorElash   CE		MT2C ]	_
DUTHUE DataFlash	A14300/DCD   EEFN	UMAT24 Hondi	NUFIASTI SP	NAM   Senairiasri A120	/A120	Sten 4
						Jotop
Download / Upload	File		) - F			Jotop
Download / Upload Send File Name	File F:/EB-SAM9G45_And	ioid_4 <mark>.</mark> 3/u-boot.bin		Send F	ile	Jorop
Download / Upload Send File Name Receive File Name	File F:/EB-SAM9G45_And	roid_4 <mark>.</mark> 3/u-boot.bin		Send F Receive	ile File	2010
Download / Upload Send File Name Receive File Name Address	File F:/EB-SAM9G45_Andi 0x20000 Size	roid_4- <mark>3/u-boot.bin</mark> (For Receive File) : ]	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	2010
Download / Upload Send File Name Receive File Name Address	File F:/EB-SAM9G45_And 0x20000 Size	roid_4- <mark>3/u-boot.bin</mark> (For Receive File) :	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	Joiop
Download / Upload Send File Name Receive File Name Address Scripts Send Boot File	File F:/EB-SAM9G45_And 0x20000 Size	ioid_4 <mark>3/u-boot.bin</mark> (For Receive File) :	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	
Download / Upload Send File Name Receive File Name Address Scripts Send Boot File	File F:/EB-SAM9G45_And 0x20000 Size	roid_4 <mark>3/u-boot bin</mark> (For Receive File) : ]	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	
Download / Upload Send File Name Receive File Name Address Scripts Send Boot File	File F:/EB-SAM9G45_And 0x20000 Size	roid_4 <mark>3/u-boot.bin</mark> (For Receive File) : )	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	
Download / Upload Send File Name Receive File Name Address Scripts Send Boot File	File F:/EB-SAM9G45_And 0x20000 Size	roid_4, <mark>3/u-boot.bin</mark> (For Receive File) : )	0x1000 byte(s)	Send F Receive Compare sent file	ile File with memory	
Download / Upload Send File Name Receive File Name Address Scripts Send Boot File	File F:/EB-SAM9G45_And 0x20000 Size tes written by apple FA60 bytes at 0x400	(For Receive File) : ) (For Receive File) : ) (For Receive File) : ) (For Receive File) : )	0x1000 byte(s)  Execute  (0x70003AA0)	Send F Receive Compare sent file	ile File with memory	

Note:

Step 1: Open files;

Step 2: Pick up the file "u-boot.bin";

Step 3: Add address 0x20000;

Step 4: Send File;

Step 5: Successfully download the file u-boot.bin

✓ Follow the below steps to download ubootEnvtFileNandFlash.bin Address: 0x60000.

1	SAM-BA 2.9 - at91sam9g45-ek	1
F	File Script File Link Help	
-	at91sam9m10 Memory Display	-
	Start Address : 0x300000     Refresh     Display format     Applet traces on DBGU       Size in byte(s) : 0x100     Gascii C 8-bit C 16-bit C 32-bit     infos Apply	
	0x00300000 0xEA0000014 0xEAFFFFFE 0xEA000063 0xEAFFFFFE	
	0x00300010 OxEAFFFFFE OxEAFFFFFE OxEAFFFFFE OxE3A0D008	step
	0x00300020 0xE58BD128 0xE59AD04C 0xE59CD004 0xE21DD001	1
-		sten
step 2	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download 7 Upload File Send File Name : F:/EB-SAM9G45 Android 4.3/ubootEnvtFileNandFlash.bin E: Send File	
step 3	Beceive File Name :         Provide the section of the section o	
	Scripts	
	Send Boot File Execute	
step 5		
-1- -1- -1- (A	File size : 0x20000 byte(s)     Writing: 0x20000 bytes at 0x60000 (buffer addr : 0x70003AA0)     0x20000 bytes written by applet     T91-ISP v1.13) 1 %	1



 $\checkmark$  Follow the below steps to download ulmage

Address: 0x200000.



✓ Follow the below steps to download

#### at91sam9g45-Android-2.3.1\_r1-ver1.0.jffs2

#### Address: 0x500000.

	🔚 SAM-BA 2.9 - at91sam9g45-ek 📃 🗖	×I
	File Script File Link Help	
	at91sam9m10 Memory Display	1
	Size in byte(s) : 0x100 C ascii C 8-bit C 16-bit © 32-bit infos T Apply	
	0x00300000 0xEA000014 0xEAFFFFFE 0xEA000063 0xEAFFFFFE	
	0x00300010 OxEAFFFFFE OxEAFFFFFE OxEAFFFFFE OxE3A0D008	
	0x00300020 0xE58BD128 0xE59AD04C 0xE59CD004 0xE21DD001 ▼	step 1
step 2 —	DDRAM DataFlash AT45DB/DCB EEPROM AT24 NandFlash NorFlash SRAM SerialFlash AT25/AT26 Download / Upload File	step 4
	Send File Name : 9G45_Android_4.3 at91sam9g45:Android-2.3.1_r1-ver1.0.jffs2 😰 Send File	
step 3 —	Receive File Name : Receive File	
	Address : 0x500000 Size (For Receive File) : 0x1000 byte(s) Compare sent file with memory	
	Scripts	
	Send Boot File Execute	
step 5		
	-I- 0x20000 bytes written by applet -I- Writing: 0x20000 bytes at 0x2E60000 (buffer addr : 0x70003AA0) -I- 0x20000 bytes written by applet (AT91-ISP v1.13) 1 %	



# **Chapter 5: How to use the Android System**

### 5.1 How to mount & use SD card

> First, insert the SD card into the SD slot.



Once SD card inserted & detected you will see SD card message on top left side of your screen.



To unlock the screen press the user1 key OR use the F1 key of usb keyboard (if connected).





Press applications  $\geq$ 

sign on the screen.

					int C	00:51
Browser	Calculator	Calendar	Camera		Contacts	
			. 1739:20:52 			
0	<u>.</u>		Embest	\$		
Dev Tools	Downloads	Email	Embest	Ethernet	Gallery	
:		6	Q	Ċ	0	
Messaging	Music	Phone	Search	Settings	Spare Parts	
to a contraction						

≻ Select "Settings" icon on the screen.

					ăıl G	00:52
Browser	Calculator	Calendar	Camera	Clock	Contacts	
Dev Tools	Downloads	Email	Embest	<b>s</b> Ethernet	Gallery	ñ
••• Messaging	Music	Phone	Search	Settings	Spare Parts	
a manala A casa						



> Now select "Storage" option from the list.

-8		йI	?	00:53
Setti	ngs			
<u>111</u>	Location & security			
ġ,	Applications			
۲	Accounts & sync			
₩	Privacy			
-	Storage			

> Under storage option select "mount SD card".

	ίđ	?	00:53
Storage settings			
SD card			
Total space Unavailable			
Available space			
Mount SD card Mount the SD card			
Erase SD card Erases all data on the phone's SD card, such as music and photos			
Internal storage			

> Now you have mounted SD card successfully, you can use the SD card

## 5.2 Using USB keyboard

To use the USB keyboard simply insert to USB port of the keyboard to Host USB port of the board, after this you can use USB keyboard.

#### 5.3 Testing Audio output

> First from the applications screen select "Music" icon.





- Now you will see multiple tap son top, now select "Songs" tab where you ۶ will see a list of songs stored in the memory.
  - 1 00:14 -\* Ų é 0 11  $\odot$ Playlists Now playing Songs avril - when you are gone Unknown artist Tomorrow avril You Raise Me Up Josh Groban
- ۶ Now you can select any song from the list to play.

				训 🖻 00:16
Artists	Albums	<b>K</b> Songs	Playlists	Now playing
<b>avril - when y</b> Unknown artist	ou are gone			4:00
Tomorrow avril				3:46
You Raise Me Josh Groban	Up			4:50



> Once the song started playing you will see player interface as below.



#### **5.4 Testing Ethernet connection**

Note: Before testing Ethernet connection, please make sure you have connected the board with the router using network cable.

> Now select the "Ethernet" icon from application screen.



This will open Ethernet window where you will see option to "Turn ON", "Turn OFF" and configure Ethernet.





Now select the "Ethernet Configuration" from the menu. ۶



Under Ethernet configuration you need to provide IP address, Mask, DNS server and default gate.

After configuring Ethernet successfully, open the browser to test and  $\triangleright$ enter: www2.atmel.com





## 5.5 Testing Wi-Fi connection

Note: Before testing Wi-Fi connection please make sure you have connected the Wi-Fi adapter (only support rt2070 and rt3070) to the USB Host interface of the board.

Now select the "Settings" icon from the applications screen.



> From the list select "Wireless & Networks".



Settings	ill 🖗 01:13
🛜 Wireless & networks	
■ Sound	
Display	
E Location & security	

> Now turn on the Wi-Fi by selecting "Turn ON Wi-Fi"

	ill 🦻 00:02
Wireless & network settings	
Airplane mode Disable all wireless connections	
Wi-Fi Turn on Wi-Fi	
Wi-Fi settings Set up & manage wireless access points	
Bluetooth Turn on Bluetooth	
Bluetooth settings	

> Now we need to configure the Wi-Fi from the Wi-Fi settings.

	ňI	?	00:03
Wireless & network settings			
Airplane mode Disable all wireless connections			
<b>Wi-Fi</b> Turn on Wi-Fi			
Wi-Fi settings Set up & manage wireless access points			
Bluetooth Turn on Bluetooth			
Bluetooth settings			



From settings select the appropriate wireless connection, here we have selected the Embest wireless network.



> After configuring Wi-Fi, open the browser and input:<u>www2.atmel.com</u>



If it opens the webpage, then Wi-Fi is working and tests successfully.



# **Appendix A: After-sales Service**

### **Customer Service:**

Please contact Premier Farnell local sales and customer services staffs for the help. Website: <u>http://www.farnell.com/</u>

## **Technical Support:**

Please contact Premier Farnell local technical support team for any technical issues through the telephone, live chat & mail, or post your questions on the below micro site, we will reply to you as soon as possible.

Centralized technical support mail box: knode tech@element14.com

Community: http://www.element14.com/community/community/knode/dev\_platforms\_kits

Please visit the below micro site to download the latest documents and resources code: <u>http://www.element14.com/community/community/new\_technology/at91sam9g45-evk</u>

#### Notes:

This board was designed by element14's design partner- Embest, you can contact them to get the technical support as well.

Marketing Department: Tel: +86-755-25635656 / 25638952 Fax: +86-755-25616057 E-mail: <u>market@embedinfo.com</u>

Technical Support: Tel: +86-27-87290817 E-mail: <u>support.en@embedinfo.com</u> URL: <u>http://www.embedinfo.com/en/</u>