

Fast Track Your Wireless Project 自由无线 放飞梦想

ARTDemo V 2.0 Mobile Application for iPhone



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ARTDemo V2.0 iPhone User Manual

1. Basic Information for ARTDemo V2.0

1.1. To install

ARTDemo V2.0 contains source and installer files. To access these files and to install please do the following:

- I. To initialize "ARTDemo V2.0" user needs to provide the UDID of the iPhone. (See steps 1.2.)
- II. Once the UDID is obtained, a custom Ad-Hoc mobile profile for relative device is created.
- III. The "ARTDemo_V2.0.zip" file is sent to the user. To extract this file use iTunes (Windows/MAC) under the application tab. User can synchronize device with iTunes (Windows/MAC) and install "ARTDemo V2.0" to iPhone/iPad/iTouch.

ARTDemo V2.0 is now ready to use.

1.2. To locate UDID

Follow these steps to locate the UDID on your iPhone.

- I. Connect your iPhone to your computer and start iTunes.
- II. Click on your iPhone on the left navigation bar under devices.
- III. Under the summary tab, there is a label Serial Number.
- IV. Click on the label it changes to Identifier (UDID). Note: This label is nothing more than just text -- it's not highlighted or otherwise marked to indicate that you can click on it.
- V. Hit Ctrl C or Cmd C (if on a Mac) since you will not be able to simply select the UDID and copy it.
- VI. Paste the UDID in your email, notepad, word, etc and save it for future reference or send to our developer at <u>info@ampedrftech.com</u>.

1.3. To start

After the installation process is complete, search for the "ARTech" icon. Click on "ARTech" icon to start "ARTDemo V2.0". If icon is not located, repeat the installation process.



2. Welcome Screen



Once the ARTDemo starts successfully, the following screen will appear:

The welcome screen contains company logo and the app version. Located at the bottom of the screen are two buttons: "i" and "Enter"

2.1. About ("i")

The "*i*" button contains the "About ARTDemo" screen with application information:

No SIM The Abo	16:20 ut ART De	
ABT Demo A	pplication	
	ppnoution	
Platform	iOS 3	3.1 or later
Version		2.0
Copyr Amp'ed RF All r	right 2010 - 201 Wireless Tech ights reserved	l1 nology.

To go back to the "Welcome" screen, press the "Welcome" button located on the top left of screen.

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2.2. Enter

The "Enter" button launches the "Main Screen":



3. Main Screen

The ARTDemo V2.0 main screen includes two parts:

I. ART Devices List for more information described in a chapter 4.

II. Local Device Information for more information described in chapter 4 (4.3.2).



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3.1. ART Devices List

The "ART Device List" shows all ART devices which are connected to the iPhone.

Press the "ART Devices List" line to show the "ART List" screen, please see Page 10.

* 📼		
>		
Benson		
iPhone		
4.1		
	Benson iPhone 4.1	Benson iPhone 4.1

The " button located on the top right header will launch the "About" and "Cancel" buttons.

3.1.1. About

The "About" button shows the "About" Screen as described in a 2.1 on a page 6.

3.1.2. Cancel

Use the "Cancel" button to cancel event.

3.2. Local Device Information

The "Local Device Information" contains the following: Name, Model and iOS System version.

No SIM 裦	16:20	* 📼
	ART Demo	
Remote D	evices	
ART Devie	ces List	>
Local Dev	ice Information	
Name		Benson
Model		iPhone
System V	ersion	4.1
		1
	11/1/	

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4. ART Devices List

This screen displays all Amp'ed Bluetooth devices and device serial numbers that are connected to the iPhone.

- Select an item, and press this items right button (arrow shape button), it will show this device's detail information screen, please see 4.1 on a page 10.
- Press " button located on the top right header of the screen to show the menu buttons dialog box, please see 4.2 on a page 11.
- Select an item, and press it to show this device's data transfer screen. Please see 4.3 on a page 12.
- Press "Main" button to go back to "Main" screen.
- When ART disconnects with the iPhone, this screen will automatically remove ART from ART list.
- When ART connects to the iPhone, this screen will automatically add this ART to ART list, and display its serial number.





4.1. ART Detail Information Screen

This screen lists the current ART device property information, as follows: Name, connected state, firmware version, hardware version, manufacturer name, mode number and serial number.

lo SIM 🛜	16:21	* 📼
ART Devices List	Amp'ed	Up!
Name		Amped-Test
Connected		Yes
firmware		1.0.0
hardware		1.0.0
manufacturer		Amped RF
modeNumber		Test-Model
serialNumber		Amp'ed Up!

"ART Devices List" button

Press the "ART Devices List" button to go back to "ART Devices List" screen.

4.2. ART Menu Screen

The "
"
"
button will launch the "Refresh" and "Cancel" options as pictured in the following screen:

No SIM	•	16:57		* 📼
Main	ART	Devices	List	
	Amp'ed	l Up!		۲
0				
_				
				17
_	_	_	_	
	_	Refresh	_	
		Cancel		
-				_

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• "Refresh" button

The "Refresh" button will refresh the ART devices list, and scan all ART devices that are connected to the iPhone.

"Cancel" button

Press the "Cancel" button to close option button dialog box.

4.3. Data Transfers Screen

4.3.1. Information

When the user presses the ART device, the following screen will appear:

No SIM 🗢 16:	21 *
ART Devices List Am	p'ed Up!
Received	

I : Input some text in the below edit text, then press "Send" button to send these text to the ART device by Bluetooth link. If the app sends this message successfully, this message will be displayed on the above edit text.

II : If the app receives message from the ART device, these message is displayed on above edit text.

III : The middle region display the data bytes which are sent and received.



The following figure displays the middle region of the screen:

No SIM 🗢	16:22	* 📼	
ART Devices List	Amp'ed Up!		
[Received 16:21: [Sent 16:22:10]h	53]Hello world ello		
Received		13	
Sent		5	
		/	
		Send	U

4.3.1.1. "ART Devices List" button

The "ART Devices List" button will allow the user to go back to the "ART Devices List" screen.

4.3.1.2. "Menu" button

The " The " button located on the top right header of this screen, will show the following five buttons: "Setting", "Auto Send", "Send Test File Data" and "Clear".

N	o SIM ᅙ 16:23	* ==>
	ART Devices List Amp'ed Up!	
	Settings	
	Auto Send	
	Send Test File Data	
	Clear	

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Settings" button

This will go to the "Data transfers settings screen".

"Auto Send" button

This feature has two choices to send data transfers manually or automatically. To send data automatically to the remote device, press the "Auto Send" button and this will start the auto send process. From the "Settings" screen, there is an option to define custom text message to be sent. The default value is "This is a test message from ART Demo application for **iOS**"

	No SIM 🛜	16:24	* 🖦		
	Cancel	Settings	ОК		
	Data Form	at	ASCII		
	BlueGuard	Settings			
	BlueGuard		OFF		
	Key				
	Auto Send	Settings			
•	This is a test application for	message from or iOS	ART Demo		
	Interval Ti	me(S)	1		
	Send Test	File Data	4		
	This is test fi	le data from Al	RT Demo		
	×			10.00	
No SIM 🗢 16:22	* 📼			16:22	
ART Devices List Amp'ed	Jp! 🛃		ART Devices Lis	Amp'ed Up!	
[Sent 16:22:10]hello [Sent 16:22:33]This is a test m ART Demo application for iOS [Sent 16:22:34]This is a test m ART Demo application for iOS [Sent 16:22:35]This is a test m ART Demo application for iOS [Sent 16:22:36]This is a test m ART Demo application for iOS [Sent 16:22:37]This is a test m ART Demo application for iOS	essage from essage from essage from essage from essage from		application for This is test file application for	IOS data from ART Den IOS data from ART Den IOS data from ART Den IOS data from ART Den IOS data from ART Den IOS	10 10 10 10
Received	13		Received		13
Sent	285		Sent		4429
Auto sending data	Stop		Sending test file of	data	Stop

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Press the "Stop" button to discontinue auto sending process.

To repeat the auto sending process, please press the "Auto Send" from menu again.

To "Send Test Data File" process during "Auto Send" the following warning screen will appear:

No SIM 🛜	16:23	*	
ART Devices Lis	Amp'ed l	Jp! [
[Sent 16:23:17 ART Demo ap [Sent 16:23:18 ART Demo ap [Sent 16:23:20 A The app [Sent 16:23:20 A The app [Sent 16:23:20 A The app [Sent 16:23:20 A The app	This is a test me plication for IOS This is a test me plication for IOS Warning This is a test me is performing au on. Please first a plication for IOS	essage from essage from essage from to-send stop.it. from	n
	OR	_	
		st.	
Received			0
Sent		28	0
		11	
Auto sending da	ta	Stop	

The warning means user needs to "Stop" the "Auto Send" process first, then follow with another process.

If the user gets out of range or disconnected with a module during the "Auto Send" process, the following warning screen will appear:

				-p
	Devices Lis	st Am	o'ed Up	1
_				
This	is test file	e data fro	m ART De	mo
This	is test file	e data fro	m ART De	mo
ar-"	cation for	103	ADT D-	
		Warn	ing	
fil	e data oj	peration. it.	Please fi	rst stop
		1901.01		
l		Oł		
Rec	ceived	4O		-
Rec	ceived nt	Oł		308
Red	ceived nt	Oł		308

Press "OK" and the "ART Device List" screen will appear.



"Send Test File Data" button

To send test file data to the remote device, press the "Send Test File Data" button and this will begin the send test file data process. To define the custom text message to be sent go to the "Settings" screen or the default value is "This is test file data from ART Demo application for iOS".

No SIM 🛜	16:22	* 📼	
ART Devices List	Amp'ed Up	! 🔼	
application for IC This is test file di application for IC	S ata from ART De S ata from ART De S ata from ART De S ata from ART De S S	mo mo mo mo	0
Received		13	
Sent		4429	
Sending test file dat	a	Stop	

• "Clear" button

Use the "Clear" button to clear the current screen, send and received bytes.

"Cancel" button

Use the "Cancel" button to close menu button dialog.



4.3.2. Data Settings Screen

SIM 🛜	16:24	* 📼
Cancel	Settings	ОК
Data Forma	ł	ASCII
BlueGuard S	Settings	
BlueGuard		OFF
Кеу		
Auto Send S	Settings	
This is a test n application for	lessage from AF	T Demo
Interval Tim	e(S)	1
Send Test F	ile Data	
This is test file	data from ART	Demo

The "settings" menu button will show the following screen:

4.3.2.1. Data Format

The data transfers format uses two types, they include: ASCII (the default) and UTF-8.

No SIM ᅙ 16:24	* 📼	No SIM 😴 16:24	>
Cancel Settings	ОК	Cancel Settings	
Data Format	ASCII	Data Format	JTF
BlueGuard Settings		BlueGuard Settings	
BlueGuard	OFF	BlueGuard	OFF
(ey		Кеу	
Auto Send Settings		Auto Send Settings	
This is a tast massage from	APT Domo	This is a tast massage from ART De	mo
CII	~	ASCII	
UTF-8		UTF-8	
Close		Close	
application for iOS	T Demo	This is test the data from ART Demi	0

If the data format value is "ASCII", the data transfers format between the iPhone ARTDemo app and the BT module is ASCII format.

If the data format value is "UTF-8", the data transfers format between the iPhone ARTDemo app and the BT module is UTF-8 format.

The default format is ASCII.



4.3.2.2. BlueGuard Settings

This option allows the user to turn on or off the BlueGuard Settings as per requirement. To turn the BlueGuard Settings on, the user needs to enter a 16-bit (ASCII Characters or numbers) in the key option.

No SIM 🔶	16:24	* 🏊
Cancel	Settings	ОК
Data For	mat	ASCII
BlueGua	rd Settings	
BlueGua	ırd 🧧	ON 📃 NC
Key	12345678123456	78
Auto Se	nd Settings	
This is a to application	est message from AR n for iOS	T Demo
Interval	Time(S)	1
Send Te	st File Data	
This is tes	t file data from ART I	Demo

4.3.2.3. Auto Send Data

The auto send data allows the user to enter a custom text message that can be sent to the remote device automatically.

The default value text is "This is a test message from ART Demo application for iOS".

4.3.2.4. Interval Time

The Interval Time option allows the user to send data at an interval. e.g. 1 second is default.

• "OK" button

The "OK" button will save these settings and goes back to the "data transfers" screen.

Press "Cancel" button

The "Cancel" button closes this screen, and goes back to the "data transfers" screen.



4.3.2.5. Send Test File Data

In the send test file data edit text, user can enter custom test file text messages.

The default value is "This is a test file data from ART Demo application for iPhone".

No SIM 🛜 16:24	* 📼
Cancel Settings	ОК
BlueGuard	OFF
Кеу	
Auto Send Settings	
This is a test message from A application for iOS	ART Demo
Interval Time(S)	1
Send Test File Data	
This is test file data from ART application for iOS	r Demo
Send Repetitions	100
Total Characters Bytes	5600

Send Repetitions

This allows the user to set a defined option to send the same line repetitively.

Total Characters Bytes

This option calculates the total amount of character bytes sent from device, it depends on **"Send Repetitions"**.

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