# Amped RF Wireless Technology

The ARTDemo V 2.0 Mobile Application for BlackBerry





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# **User Manual of ARTDemo V2.0 for BlackBerry**

# 1. How to install and start ARTDemo V2.0 in the BlackBerry phones?

# 1.1. How to install?

In the product we can provide you "ARTDemo.alx" and "ARTDemo.cod" setup files which you can copy to your phone and install using "BlackBerry Desktop Manager". Then you need to select an "Application" tab and import file into phone first. Then simply click on "Apply" button which install ARTDemo Application into your phone and ready to use.

# 1.2. How to start?

After installed the "ARTDemo" you find the icon in your menu inside "Downloads" with named "ARTech". Simply click on this icon to start the ART Demo application. Before using the ART Demo application, please first disable "Serial Port Profiles" under the phone Bluetooth Configuration.

**Note:** Before starting the ART Demo for BlackBerry, please perform "Reset" command on the USB dongle.





# 2. Welcome Screen

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



The welcome screen is displayed with welcome message and company logo. At a bottom of the screen three buttons are located: "About", "OK" and "Exit".

# 2.1. About

Once a user is pressed "About" button, the "About ARTDemo" screen will appear with application information the following:



# 2.2. OK

Once a user is pressed "OK" sub menu, the Main Screen will appear the following:





ART Demo Application	
Remote Bluetooth De	
Scan for Devices	
Bluetooth Device List Display Bluetooth devices found by A Local Bluetooth Sen	ART Demo vice
SPP Server:	Disabled 🔻
Connected Devices List Display Bluetooth devices connected	to ART Demo
BlueGuard:	Disabled 🔻
Local Bluetooth Sett	
Discoverable:	Yes 🔻 🚽

# 2.3. Exit

Once a user is pressed "Exit" sub menu, it will appear with a dialog box to ask your permission "OK" or "Cancel". If you selected "OK" then it caused exit of Application.







# 3. Main Screen

The ARTDemo V2.0 main screen includes three parts:

- (1) Remote Bluetooth Device for more information described in a chapter 4.
- (2) Local Bluetooth Service for more information described in a chapter 5.
- (3) Local Bluetooth Settings for more information described in a chapter 6.

ART Demo Application			
Remote Bluetooth De	evice		
Scan for Devices Scan nearby bluetooth devices			
Bluetooth Device List Display Bluetooth devices found by ART Demo Local Bluetooth Service			
SPP Server:	Disabled 🔻		
Connected Devices List Display Bluetooth devices connected to ART Demo			
BlueGuard:	Disabled 🔻		
Local Bluetooth Settings			
Discoverable:	Yes 🔻 🚽		

# 3.1. Option Screen

User can only press "Option" menu on the Main Screen to forward to "Option" screen it is optional if you don't want to save log information please disabled the "Log". If you save log information it stores as a text file named "ARTDemoLog.txt" in the SD Card root directory.

ART Demo: Option	
Log:	Enabled <b>•</b>



# **4. Remote Bluetooth Device**

# 4.1. Scan for Devices

After pressing "Scan for Devices", the app will start to scan nearby Bluetooth devices.

ART Demo Application			
Remote Bluetooth De	evice		
Scan for Devices Scan nearby bluetooth devices			
Bluetooth Device List			
Scanning nearby bluetoot SP devices Connected Devices List Display Bluetooth devices connected	th I to ART Demo		
BlueGuard:	Disabled 🔻		
Local Bluetooth Settings			
Discoverable:	Yes 🔻		

# 4.2. Bluetooth Device List

After pressing "Bluetooth Device List", the app will display "Bluetooth Device List". At bottom on a screen two menus are located: "Connect", "Detail", "Re-Scan" and "Paired Devices".

ART Demo: Remote Devices List				
Amp'ed Up! Not paired and not co	onnected			
Not paired and not co	onnected			
Connect Detail				
Re-Scan				
Switch Application				
	ART Demo: Remote De Amp'ed Up! Not paired and not co HTC G6 Not paired and not co Connect Detail Re-Scan Paired Devices Switch Application Close			

This screen is displayed all devices which are found by the ARTDemo app. Each device displayed with device name, pairing state and connection state.



# 4.2.1. Connect

After pressing "Connect" sub menu, it connects to the device, if the device is not paired with the phone, it will appear with pairing dialog.



# 4.2.2. Detail

After pressing "Detail" sub menu, the following screen will display device information.



# 4.2.3. Re-Scan

The "Re-Scan" sub menu is for re-scanning the near by Bluetooth devices.

# 4.2.4. Paired Devices

The "Paired Devices" sub menu is getting all devices which are paired with the phone itself.



# 4.3. Device Connected

The phone is connected with the device then it will display the following menu: "Data Transfers", "Disconnect", "Detail", "Re-Scan" and "Paired Devices".



# 4.3.1. Data Transfers

After pressing this menu is to start data transfers functions.

Amp'ed Up!	Amp'ed Up!
	[Send]test [Recv]This is a test from BT USB dongle
	1
Recv(bytes): 0 Sent(bytes): 0	Recv(bytes): 35 Sent(bytes): 4

Enter text then press the "Send" sub menu to send it to the remote device by SPP link. The app will display the text when it receives the message from the remote device. The middle region displays how many data bytes were sent and received.

Pressing menu will display four sub menus: "Send", "Settings", "Clear" and "Stop".

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Amp'ed Up!

Send	nt(bytes): 0
Settings Clear Switch Application Close	

#### 4.3.1.1. Send

Add text into the edit text field and press the "Send" sub menu send text to the remote device by SPP link.

# 4.3.1.2. Settings



#### • ок

Press this menu to save these settings, and return to the "data transfers" screen. If it is set to "auto send", the "data transfers" screen will start to send data automatically to the device.

# Data Encoding

Data encoding can either be ASCII or UTF-8. The default value is ASCII.



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Settings	
Data Encoding:	ASCII 🔻
Auto Send the following data	
for Blackberry	Jemo app
Interval Time(seconds):1	
After Sending Times: <mark>10</mark>	
Connect Each Time	

# Auto Send the following data

This checkbox will enable the app to automatically send data to the remote device. The user define text is defined in the box below the checkbox.

Settings	
Settings	
Data Encoding:	ASCII 🔻
Auto Send the following data	
This is a test message from ART	Demo app
for Blackberry	
Interval Time(seconds):1	
After Sending Times:10	
Connect Each Time	

# Interval Time

Set interval time to send data automatically each time.

# • After Sending Times

Set this value 10 means, after sending 10 messages, the app will perform re-connect to the device.



# Connect Each Time

The Connect Each Time enabled, than after every 10 messages, the app will re-establish the connection. Pressing the "Stop" button will stop automatic data sending operation.

Amp'ed Up!	
Recv(bytes): 0 Sent(bytes): 0 Connecting to BT device	
	-

# 4.3.1.3. Clear

After pressing this sub menu is to clear all the data from Data Transfers Screen.

#### 4.3.1.4. Stop

After pressing the "Stop" sub menu it will stop automatic data sending operation.

Amp'ed Up! Denio app for Blackberry	Ampled Up! Demo app for Black	Jenry
[Send]This is a test message from ART Demo app for Blackberry	[Send]This is a test message from ART Demo app for Blackberry	
Recv(bytes): 35 Sent(bytes): 896	Stop	ent(bytes): 1232
Sending data to BT device	Settings Clear Select	device
	Switch Application Close	

The USB dongle Screen was displaying messages when performing Auto-Send operation.

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🙀 🗛 - COM3: 115200 Baud - Amp'ed RF Firmware Test Tool - 3.4	
AT-AB ConnectionUp AT-AB -BypassMode-	Connect
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test from PT USP derels	Disconnect
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	-Profile
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	A 🔻
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	Setup
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	
AT-AB ConnectionDown AT-AB connectionUp T-AB -RemocritonUp	bt11MU_101104A_DES.bin
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	Select
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	Load
This is a test message from ARI Demo app for Blackberry	Stay On Ton
Commands	· · · · · · · · · · · · · · · · · · ·
Llear Kx: 1626 bond Reset Discovery Init	Factory SPPConnect
Setup Cmds Escape Send Test setKey delKey remo	ve bond Send 100 lines

To restart the Auto Test please enabled the "Auto Send the following data" in a "settings".

#### 4.3.2. Disconnect

After pressing this menu is to disconnect the connected Bluetooth Device.

# 4.3.3. Detail

After pressing "Detail" sub menu, the following screen will display device information.





# 4.3.4. Re-Scan

The "Re-Scan" sub menu is for re-scanning the near by Bluetooth devices.

# 4.3.5. Paired Devices

The "Paired Devices" sub menu is getting all devices which are paired with the phone itself.



# 5. Local Bluetooth Service

Local Bluetooth Service has three settings options: "Enable SPP Server", "Connected Devices List" and "BlueGuard"

Bluetooth Device List Display Bluetooth devices found by ART Demo Local Bluetooth Service SPP Server: Disabled ▼ Connected Devices List Display Bluetooth devices connected to ART Demo BlueGuard: Disabled ▼ Local Bluetooth Settings Discoverable: Yes ▼ Device Name: BlackBerry 9700	ART Demo Application		
SPP Server: Disabled ▼ Connected Devices List Display Bluetooth devices connected to ART Demo BlueGuard: Disabled ▼ Local Bluetooth Settings Discoverable: Yes ▼ Device Name: BlackBerry 9700	Bluetooth Device List Display Bluetooth devices found by ART Demo Local Bluetooth Service		
Connected Devices List Display Bluetooth devices connected to ART Demo BlueGuard: Disabled ▼ Local Bluetooth Settings Discoverable: Yes ▼ Device Name: BlackBerry 9700	SPP Server:	Disabled 🔻	
BlueGuard: Disabled ▼ Local Bluetooth Settings Discoverable: Yes ▼ Device Name: BlackBerry 9700	Connected Devices List Display Bluetooth devices connected	to ART Demo	
Local Bluetooth Settings Discoverable: Yes ▼ Device Name: BlackBerry 9700	BlueGuard:	Disabled 🔻	
Discoverable: Yes ▼	Local Bluetooth Sett	ings	
Device Name: BlackBerry 9700	Discoverable:	Yes 🔻	
Device Address: 30694BD38104	0 04		

# 5.1. Enable SPP server

To start SPP server checked the "Enable SPP server" and to stop SPP Server unchecked the "Enable SPP server".

# 5.2. Connected Devices List

After pressing this setting it will display "Connected client device list". Select a client device, then press menu; it will display the following menu: "Data Transfers", "Disconnect" and "Detail".

ART Demo: SPP Clier	nt Devices
Amp'ed Up! Paired and connect	red
Data Transfers	
Disconnect	
Detail	
Switch Application	
Close	

# 5.2.1. Data Transfers

After pressing this menu is to start data transfers functions.

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Amp'ed Up!	Amp'ed Up!
	[Send]test [Recv]This is a test from BT USB dongle
	1
Recv(bytes): 0 Sent(bytes): 0	Recv(bytes): 35 Sent(bytes): 4

Enter text then press the "Send" sub menu to send it to the remote device by SPP link. The app will display the text when it receives the message from the remote device. The middle region displays how many data bytes were sent and received.

Pressing menu will display four sub menus: "Send", "Settings", "Clear" and "Stop".

	Amp'ed Up!	
	Send Settings Clear Switch Application	וt(bytes): 0
$\langle \rangle$	Close	

# 5.2.1.1. Send

Add text into the edit text field and press the "Send" sub menu send text to the remote device by SPP link.



# 5.2.1.2. Settings

Settings	Settings
Data Encoding: ASCII -	Data Encoding: ASCII -
Auto Send the following data This is a test message from ART Demo app for Blackberry	Auto Send the following data This is a test message from ART Demo app for Blackberry
Interval Time(seconds):1	Interval Time(seconds):1
After Sending Times: <mark>10</mark>	Cancel :10
Connect Each Time	Switch Application Close e

# 🔶 ОК

Press this menu to save these settings, and return to the "data transfers" screen. If it is set to "auto send", the "data transfers" screen will start to send data automatically to the device.

# Data Encoding

Data encoding can either be ASCII or UTF-8. The default value is ASCII.

Settings	
Data Encoding:	ASCII 🔻
Auto Send the following data	
This is a test message from ART	Demo app
for Blackberry	
Interval Time(seconds):1	
After Sending Times: <mark>10</mark>	
Connect Each Time	

# Auto Send the following data

This checkbox will enable the app to automatically send data to the remote device. The user define text is defined in the box below the checkbox.





Settings	EN
Data Encoding:	ASCII 🔻
Auto Send the following data This is a test message from ART I for Blackberry	Demo app
Interval Time(seconds): <mark>1</mark>	
After Sending Times: <mark>10</mark>	
Connect Each Time	

# Interval Time

Set interval time to send data automatically each time.

# • After Sending Times

This item is disabled.

# Connect Each Time

This item is disabled.

# 5.2.1.3. Stop

After pressing the "Stop" sub menu it will stop automatic data sending operation.

Amp'ed Up! Demo app for blackberry	Amp'ed Up! Demo app for blacki	бену
[Send]This is a test message from ART Demo app for Blackberry	[Send]This is a test message from ART Demo app for Blackberry	
Recv(bytes): 35 Sent(bytes): 896	Stop	ent(bytes): 1232
Sending data to BT device	Settings Clear Select	Jevice
	Switch Application Close	

The USB dongle Screen was displaying messages when performing Auto-Send operation.

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🗛 - CON3: 115200 Baud - Amp'ed RF Firmware Test Tool - 3.4	
AT-AB ConnectionUp AT-AB -BypassMode- This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test from BT USB dongle This is a test message from ADT Demo app for Blackberry	Connect Disconnect
This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	Profile A v Setup
AT-AB ConnectionDown AT-AB ConnectionUp AT-AB -BypassMode- This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry This is a test message from ART Demo app for Blackberry	bt11MU_101104A_DES. bin Select Load
Clear Rx: 1626 Setup Cmds Escape Send Test SetKey delKey remov	'actory SPPConnect 'e bond Send 100 lines

To restart the Auto Test please enabled the "Auto Send the following data" in a "settings".

# 5.2.1.4. Clear

After pressing this sub menu is to clear all the data from Data Transfers Screen.

#### 5.2.2. Disconnect

After pressing this menu is to disconnect the connected Bluetooth Device.

#### 5.2.3. Detail

After pressing "Detail" the following screen will display device information.

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Amp'ed Up! Detail Info

Name: Amp'ed Up! Address: 00043E2615AA Type: Unknown Paired: Yes Connected: Yes

# 5.3. BlueGuard

BlueGuard is not supported for this version of application.





# 6. Local Bluetooth Settings

Local Bluetooth Settings have four options: "Discoverable", "Device Name", "Device Address".

ART Demo Application		
Bluetooth Device List Display Bluetooth devices found by ART Demo Local Bluetooth Service		
SPP Server:	Enabled 🔻	
Connected Devices List Display Bluetooth devices connected to ART Demo		
BlueGuard:	Disabled 🔻	
Local Bluetooth Sett	ings	
Discoverable:	Yes 🔻	
Device Name: BlackBerry 9700 Device Address: 30694BD38104		

#### 6.1. Discoverable

In order to make phone discoverable please set the status to "Yes" or else select "No"

#### 6.2. Device Name

This option is displayed the local Bluetooth device name.

# 6.3. Device Address

This option is displayed the local Bluetooth device address.

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