

# USR<sup>®</sup> Courier<sup>®</sup> Console Port Server & Power Switch

## Graphical User Interface User Guide



For the following product: USR4204 Console Port Server & Power Switch Hybrid

Rev 1.0 04/2017

#### **Overview**

The USR4204 Graphical User Interface (GUI) is a software application that runs on a computer having a Windows operating system to make configuring and updating USR4204s much faster and easier than using the USR4204's native menu-driven interface.

- ✓ On a single screen, view and edit the complete set of parameters, labels, accounts, and banners of a local or remote USR4204.
- ✓ Save USR4204 configurations to files, then easily create duplicate USR4204s by recalling the files into the GUI and loading the configurations into other USR4204s.
- ✓ Easily flash new firmware into local or remote USR4204s.
- ✓ Use a terminal emulation mode to communicate with a USR4204's menu-driven interface.

#### Symbols Used in this Guide



This symbol invites the User to read more technical details.



This symbol warns the User to stop, read, and understand critical information.



This symbol alerts the user to important operating and maintenance instructions.

## Summary of USR4204 GUI Benefits

USR4204 Native Menu-Driven Interface	USR4204 GUI Software
The menu-driven interface is simple to use, but outdated.	A <b>point &amp; click graphical interface</b> is the preferred interface paradigm.
Configure duplicate USR4204s by entering each parameter individually into the menu-driven interface. Administrators must remember or document each parameter setting.	Easily configure duplicate USR4204s from one or more prebuilt image files.
The USR4204's native firmware update process requires a capable terminal application and the knowledge of the terminal's file upload process.	Easily update the USR4204's firmware.
Navigate multiple sub-menus to find and view configuration parameters or User accounts.	A <b>single-screen management dashboard</b> of all USR4204 configuration parameters and User accounts is provided for convenient viewing and editing.
To contact a remote USR4204, the phone number of each remote USR4204 must be remembered or noted, and manually typed into the terminal every time.	Provides a simple means of using a modem to <b>contact</b> <b>remote USR4204s</b> . The modem dial string is remembered from the previous session, or recalled with configuration files.
Users must provide a third-party terminal application that runs on the computer's operating system.	Integrated <b>Terminal mode</b> relieves Users from providing a separate third-party terminal emulator application.
Users must configure the third-party terminal application for USR4204 compatibility.	Terminal mode default settings match USR4204 requirements.
Users must type commands into the terminal.	Terminal mode enhances the USR4204 menu-driven interface with <b>point &amp; click graphical interface</b> features.
The availability of Macro keys is terminal-dependent.	Terminal mode provides Macro keys for recording & playback of routine tasks.

## **GUI Installation**

System requirements for installation:

- Windows XP, 7, 8.1, or 10
- screen resolution 1024x768 or higher

For managing a <u>local</u> USR4204, the system must also have:

- a COM port assigned to one of the following:
  - RS-232 serial port
  - USB port with a USB-to-serial cable

For managing a <u>remote</u> USR4204, the system must also have:

- a COM port assigned to one of the following:
  - o an RS-232 serial port connected to a serial data communication device (e.g. analog modem)
  - o a USB port and USB-to-serial cable connected to a serial data communication device (e.g. analog modem)
  - $\circ \quad \text{an internal analog modem} \\$
  - o a USB port connected to a USB analog modem

Download **4204-GUI.zip** from the USRobotics website <u>www.usr.com/support/4204</u> and save it to a convenient folder. For example, the desktop folder (C:\Users\{your username}\Desktop).

Extract the contents of the zip file. For example, right-click the zip file, then select "extract all". This process may be different in your version of Windows. Check your Windows help files for details on unzipping a zip file.

The extracted folder will contain the GUI application (**GUI4204.exe**) and one ActiveX control module (**MSComm32.ocx**). You may move this folder into any convenient directory.

Launch the GUI application (double-click, or select & press **Enter**). You may need to login to Windows as an Administrator before you launch. The GUI will display the Configuration Dashboard, populated with default USR4204 parameters.

## 0

Depending on your Windows operating system, you may see an error message the first time you launch the GUI application. If so, close the message and try launching the GUI application again. If you still see an error message, try moving the **MSComm32.ocx** file into the Windows System32 or System64 folder, then launch again.

If Windows complains about **MSComm32.ocx** not being properly registered, an Internet search for the problem yields several possible remedies, such as the following:

#### METHOD 1

- 1. Copy MSComm32.ocx to C:\Windows\System32 (or SysWow64) folder
- 2. From Start, Type Run then press Enter then under Run, type:

regsvr32 %Systemroot%\System32\mscomm32.ocx

#### METHOD 2

Re-register MSComm32.ocx file from an elevated command prompt

- a. Click **Start**; in the start search box, type **cmd**.
- b. Right click on cmd.exe and choose to "Run as administrator".
- c. Type the following command and press Enter (to un-register):

regsvr32 /u MSComm32.ocx

d. Type the following command and press Enter (to re-register):

regsvr32 /i MSComm32.ocx

- e. Close the command prompt and then try to run the program.
- f. If Windows still complains, copy MSComm32.ocx to C:\Windows\System32\

## The Configuration Dashboard

Figure 1 shows the USR4204 GUI Configuration Dashboard loaded with example settings. The Configuration Dashboard offers graphical buttons, text fields, pull-down boxes, and check-boxes that represent the settings of a USR4204.

SUSRobotics Console Server & Power Switch - USR4204 Interface Versi	ion 1.05	i - Copyright (c) 20	014 U.S. Robotic	cs, Corp.		
Serial Name Baud Parity Esc Cell A Console port A, baud=9600 bps, 701 9600	User	Username	Password	PERMISSI	ONS	Remove ALL Accts
B Console port B,baud=19.2kbps,8N1 19200 💌 N 💌 - 💌 off 💌	Admin	admi n	admin	ABCD	12	acct admin
C Console port C,baud=1200 bps,8N1 1200 💌 N 💌 - 💌 off 💌	User 1	user1	1	মহাম	~	
D Console port D,baud=9600 bps,8N1 9600 💌 N 💌 - 💌 off 💌	User 2	user2	2	মহাম	2	
	User 3	user3	3	মহায়	$\overline{\mathbf{v}}\overline{\mathbf{v}}$	
	User 4	user4			~	
	User 5	user5	5	মথথ্য	ГГ	
	User 6	user6	6		ГГ	
	User 7	user7	7		ГГ	
Powerl Power nort 1, 120vac, 6.0amn MAX	User 8	user8	8			
Power 2 Power nort 2, 120vac, 2,0amn MAX	User 9	user9	9			
	User 10	user10			$\nabla$	
	User 11	user11	11		~~	
	User 12	user12	12		ГГ	
System USR4204 number 1ME4Z7PM0009	User 13	user13	13	- মহাহায়	~~	
Ver 1.17 06/02/14 S/N: 1ME4Z7PM0009	User 14	user14	14			
	User 15	user15		- דידי		
Cellular Mode OFF VIEW LF Pacing VIEW Login Banner USRobotics	Console	server & Power	Switch		F	actory Login Banner
Inactivity T/O S/W Flow Control Control Security Banner This system	ı is for	the use of auth	orized users or	ily. Indi∨iduals	using th	
Char for Menu						Clear Banner
Char for Xon ctr1Q Auto CR						
Char for Xoff						Chars
Factory Parameters Strong Passwords						
		1				~
	100				>	
Flash New Code Read Unit Write Unit COM  2 Dial Modern AIDT						
Debug Current Login admin admin Ien	minal	FACTORY MASTER	Read File Write	File		EXIT

Figure 1

The buttons and check-boxes are controlled by point & click, text is typed into the text fields, and the pull-down boxes can be typed or clicked.

The Configuration Dashboard presents an Administrator with all USR4204 system parameters on a single screen (the USR4204 native menu-driven user interface requires navigation to sub-menus to reach most system parameters).

#### Load Factory Settings

Factory settings can be recalled into the GUI's Parameters group, Accounts group, Login Banner, and Security Banner, or can be recalled collectively with one click.

The Factory Parameters button loads factory text and settings into the Parameters group.

The Remove ALL Accts button clears all Usernames, Passwords, and Permissions from the Accounts group.

The Factory Login Banner button loads the text USRobotics Console Server & Power Switch into the Login Banner.

The Clear Banner button clears the Security Banner.

User	Username	Password	PERMISSIONS
Admin	admi n	admin	ABCD Acctadmin
User 1	user1	1	
User 2	user2	2	प्रयोग प्रयोग

Serial	Nam	е					Baud		Pa	arity	E	sc	Cell
A Con	sole	port	A, baı	ud=9600	) bps,7	01	9600	•	0	•	F	•	off
BCons	sole	port	B,bai	ud=19.2	2kbps,8	BN1	19200	•	N	•	F	-	off
Con	sole	port	C,bai	ud=1200	) bps,8	BN1	1200	•	N	•	F	•	off
Con	sole	port	D, baı	ud=9600	) bps,8	IN1	9600	•	N	•	F	-	off 👻
<u> </u>		por c	5,54		, pp310				1				1011
Power 1	Pow	er po	rt 1,	120va	c, 6.0	amp	MAX						
Power 2	Pow	er po	rt 2,	120va	c, 2.0	amp	MAX						
System	USR	4204	numbe	r 1ME4	Z7PM00	09	_						
	Ver	1.17	06/0	2/14 9	5/N: 1M	1E4Z	7 PM000	9					
Cellular N	1ode	OFF	•	Char	Help								
inactivity	T/0	5	-	LF Pac	ing Iow Contr								
Char for I	Escape	∍, -	-	Xon/X	off Passtl	nru 🔽							
Char for I	Menu	17	¥	Comma	and Echo	1	6						
Char for )	Kon /	Er	1Q 👻	Auto C	R		6						
Charles A	12	- H-	1.8	T DCD U	verride								

Login Banner	USRoboti	cs Console	Server & F	ower Switch			Factory Login Banner
Security Banner	This sys	tem is for	the use of	authorized	users only.	Individuals us	r 🔼
							Clear Banner
						_	Thars
							4
							V
	<		1				>

Char for Xo

Etr15

Security Banner

Strong Passwords

1

With one click, the Factory Master button loads factory text and settings into the Parameters group and Login Banner and clears the Accounts group and Security Banner.



#### Debug Mode

When troubleshooting, USRobotics Technical Support may request a debug file. Click the red Debug button to capture a debug trace to a log file. The button will turn green to indicate

				<
Flash New Cont Read Unit	Write Unit	COM 2	•	Dial Modem
Debug Current Lo	gin admin		a	lmi n

that tracing is ON. Every new debug session will create a new log file.

Click the green **Debug** button to discontinue the debug session and close the current log file. The button will turn red to indicate that logging is OFF. The debug files are stored in the same directory as the GUI application.

Tool Tips

Helpful tool tips appear when the cursor hovers over buttons and text fields.



#### Closing the GUI

To close the GUI application, click the Exit button in the bottom right corner.





Do not use the Alt+F4 keyboard shortcut to close the GUI application! Do not use the 🗵 icon in the top right corner to close the GUI application!

## Manage a Local USR4204

The computer can connect directly to a local USR4204 as illustrated in Figure 2.



- 1. Connect the serial port of the PC to the USR4204 Terminal Port. (see the <u>USR4204 User Guide</u> for cabling requirements)
- 2. Launch the GUI application.
- If security is enabled in the USR4204, enter a valid username and password into the Current Login text boxes. The username and password are case-sensitive.

			M	/	N
Flash New Code	Read Unit	Write			odem
Debug	Current Lo	igin adm	in	admin	_

4. Every time the GUI launches, it automatically recalls the COM port number from the previous session. If

necessary, use the **COM** pull-down box to select the COM port (1 through 16) that the computer's operating system assigned to the serial port.



Write Unit COM 2

<

<

Dial Modem

- Dial Modem

admi n

## Read the Current Configuration from the USR4204

Click the **Read Unit** button to automatically login to the USR4204 and read its settings into the GUI Configuration Dashboard.

The USR4204 is a serial interface device. The GUI will display current settings only after the **Read Unit** button has been clicked. Any configuration changes made in the GUI will not be written to the USR4204 until the **Write Unit** button has been clicked.

Flash New Code

Flash New Code

Read Unit

Current Login admin

## Write the Current GUI Configuration into the USR4204

Starting from factory default settings, or after loading a configuration into the GUI with a <u>Read Unit</u> or <u>Read File</u> operation, modify any setting or text in the Configuration

Dachhaard	and than	alial the M		hutton t	a cand the		onfiguration t	to the UCD 1201
Dasribuaru,	and then	click the w	nie Unit	bullon to	o sena the	e new c	oninguration t	.0 the USR4204.

To disable security in the USR4204, click the **Remove ALL Accts** button (which deletes all sixteen accounts from the GUI Configuration Dashboard) before initiating the **Write Unit** operation.

User	Username	Password		Remove ALL Accts
Admin	admi n	admin	ABCD	A acct admin
User 1	user1	1	ন যথ্য	
User 2	user2	2	মন মন্দ্র	

Read Unit

Current Login admin

Write Unit

COM 2

-

admi n

## Communicate Directly with the USR4204's Menu-Driven Interface

Terminal mode is a terminal emulation screen that is specially tailored for use with the USR4204. Click the **Terminal** button to switch to terminal mode and interact directly with the USR4204.



Figure 3 shows the USR4204 GUI Terminal Screen.

The terminal's serial parameters are fixed at 9600bps,8N1 to match the USR4204's terminal port. The terminal screen offers two <u>function keys</u>, six user-programmable <u>macro keys</u>, data capture, and a graphical command overlay.

SUSRobotics Console Server & Power Switch - USR4204 Interface Version 1.05 - Copyright (c) 2014 U.S. Robotics, Corp.	
F1:Clear F2:DTR F3:Macro F4:Macro F5:Macro F6:Macro F7:Macro F8:Macro	
T/O Esc Menu Xon Xoff Flow Pass Echo AutoCR DCD Banr 005 ^Q ^S OFF OFF ON ON OFF ON	<u>_</u>
MAIN Menu "USR4204 number 1ME4Z7PM0009 " Logged In: "admin "	
CMD A Connect "Console port A,baud=9600 bps,701"( 9600 odd ) B Connect "Console port B,baud=19.2kbps,8N1"( 19200 None ) C Connect "Console port C,baud=1200 bps,8N1"( 1200 None ) D Connect "Console port D,baud=9600 bps,8N1"( 9600 None )	
Toggle "Power port 1, 120vac, 6.0amp MAX"(ON 0.0 Amps) Toggle "Power port 2, 120vac, 2.0amp MAX"(ON 0.0 Amps)	
Q Toggle Cellular Mode (OFF) W Arm Ctrl-B for Break X Logout P Change Password Y Config Parameters Z Config Ports	
Refresh MAIN Menu	
COM 2 🔽	Timeout 4:59 EXIT

Figure 3

When the terminal mode is on, the **Terminal** button is green. Click the **Terminal** button again to return to the GUI Configuration Dashboard.

The **Debug** button and **Exit** button operate as described in the *Configuration Dashboard* section of this document. In terminal mode the **COM** port pull-down box is viewable only.

When USR4204 security is enabled, the **Timeout** display shows the remaining time until the USR4204 automatically closes any open port and logs out.

#### Function Keys

Click the **F1** button or press the **F1** key on the keyboard to clear the screen.

Click the **F2** button or press the **F2** key on the keyboard to toggle the DTR signal of the selected COM port OFF (red) or ON (green).



#### Macro Keys

Macro keys make managing the USR4204 or the target equipment easier by sending frequently used commands

or text strings with a single click or keystroke. The terminal screen's function keys **F3** through **F8** are user-programmable macro keys. The macro keys are empty upon GUI start-up. Macro strings

Console Serve	er & Powe	r Switch	- USR420	4 Interfac	e Version 1.0	5
TR F3:Macro	F4:Macro	F5:Macro	F6:Macro	E7:Macro	F8:Macro	
LA L	r 4	r L	r 4	r 4		

programmed into these keys are saved into configuration files, and will be loaded into the macro keys when a configuration file is recalled. The configuration files are located in the same directory as the GUI application.

#### Program a Macro String

Hold down **Shift** on the keyboard, and either click the GUI function button or press the keyboard function key that you want to program. A dialog box will open.

Type a macro string into the dialog box. (Use \n for <CRLF>)

Click the GUI function button or press the keyboard function key again to end programming.

#### Playback a Macro String

Click the GUI buttons or press the keyboard function keys **F3** through **F8** to send the macro strings to the selected COM port.

#### Capture Incoming Data

The terminal can log all incoming serial traffic to a file.

- Type a filename into the Capture textbox (excluding the extension, and <u>don't</u> press Enter on the keyboard). If no filename is entered, a file named CAP\_[date]\_[time].TXT will be created, and data will be captured into it until Capture is disabled or the GUI closes. The capture files are stored in the same directory as the GUI application.
- 2. Click the **Capture** button to toggle capture mode on. The button will turn green to indicate that data is being captured.



Click the Capture button again to toggle capture mode off.

#### Command Overlay

Normally a User enters commands into the USR4204 by typing the commands into a keyboard. The GUI terminal screen provides graphical buttons that augment the USR4204's menu-driven user interface by adding a graphic overlay onto the USR4204 menus. This allows commands to be executed either by point & click or by keyboard entry.

CMD	
A Connect	"Console port A,baud=9600 bps,701"( 9600 Odd )
B Connect	"Console port B,baud=19.2kbps,8N1"( 19200 None )
< Connect	"Console port C.baud=1200 bps.8N1"( 1200 None )
D Connect	"Console port D.baud=9600 bps.8N1"( 9600 None)
	······································
1 Togale	"Power port 1, 120vac, 6,0amp MAX"(ON 0,0 Amps)
2 Toggle	"Power port 2, 120vac, 2.0amp MAX"(ON 0.0 Amps)
	Tokel pore 1, 1201de, 210daip filok (on oro halps)
elphot 0	Cellular Mode (OFE)
W Arm	Ctrl-B for Break
X Logout	P Change Password
× Config	Paramotors
- Config	Parameters
Contrig	FOLUS
1	
	MAIN Menu

### Manage a Remote USR4204

When the computer's COM port is assigned to a data communications device (e.g. analog modem) that can connect over a network to another data communications device at a remote location and interface thru a USR4204 to the console port of the remote target equipment (as illustrated in Figure 4), the GUI can use the same connectivity to manage the remotely-located USR4204.



- 1. Launch the GUI application.
- If security is enabled in the USR4204, enter a valid username and password into the GUI Current Login text boxes. The username and password are case-sensitive.



 Every time the GUI launches, it automatically recalls the COM port number from the previous session. If necessary, use the COM pull-down box to select the COM port (1



through 16) that the computer's operating system assigned to the local modem.

4. Every time the GUI launches, it also recalls the dial string from the previous session. If necessary, enter into the **Dial Modem text box** a dial string that commands the local modem to connect to the remote modem.



5. Click the **Dial Modem** button. The GUI will send the dial string to the local modem. The local modem will dial the remote modem, connect, and the GUI will automatically login to the USR4204 and switch to the terminal screen to display the USR4204 Main Menu.



6. Click the **Terminal** button to return to the Configuration Dashboard.



Notice that the **Dial Modem** button has changed to a **Hang Up** button.

#### Read the Current Configuration from the Remote USR4204

Once the GUI is connected to the remote USR4204, follow the same steps as a local Read Unit operation.

#### Write the Current GUI Configuration into the Remote USR4204

Once the GUI is connected to the remote USR4204, follow the same steps as a local Write Unit operation.

#### Communicate with the Remote USR4204's Command-Line Interface

Once the GUI is connected to the remote USR4204, follow the same steps as a local Terminal Mode operation.

## Disconnect from the Remote USR4204

From the Configuration Dashboard, click the Hang Up button.

COM 1 - Hang Up	ATDT555-1234						
admi n	Terminal	FACTORY MASTER	Read File	Write File			

When the connection has ended, the **Hang Up** button changes back to a **Dial Modem** button.



The GUI does not support connections to packet networks that use IP addressing (e.g. LAN or cellular data networks). In that case consider using 3<sup>rd</sup> party modem emulation middleware in your Windows environment to translate the modem dial string and COM port into an IP address over TCP.

### Save the Configuration to a File

The contents of the GUI Configuration Dashboard can be saved to .dat files. The .dat file contains the entire set of parameters displayed in the GUI Configuration Dashboard along with the macro keys, COM port number, and dial string. The file contents are encrypted to protect usernames and passwords. The configuration files are located in the same directory as the GUI application.

1. Restrict usage of the .dat file by entering a username and password into the **Current Login** text boxes. Or leave the **Current Login** text boxes empty to allow unrestricted usage of the file. The username and password are case-sensitive.





Do not forget the username and password. The same username and password used to <u>save</u> the file are also used to <u>open</u> the file.

#### 2. Click the Write File button. (Click again to cancel)

Read Unit Write Unit	COM 2 💽	Dial Modem	ATDT		ZY	
Current Login admin		lmin	Terminal	FACTORY MASTER	Read File Write	File

3. If prompted, click **Yes** to proceed.

4. The file encryption is based on a Personal Identification Number (PIN). The GUI will prompt once for the PIN when writing or reading a file, and will use that PIN as the encryption key until the GUI closes. Enter a fourdigit PIN by clicking numbers on the PIN pad or typing numbers on the keyboard, then click **Enter** on the PIN pad or press **Enter** on the keyboard.





Do not forget the PIN. The same PIN used to save the encrypted passwords is also used to decrypt the usernames and passwords when the file is read into the GUI.

5. A Write Filename dialog box will appear next to the Write File button. Enter a filename into the Write Filename dialog box and press Enter on the keyboard. The filename is not case-sensitive.





## **Recall the Configuration from a File**

A saved configuration file can be recalled into the GUI Configuration Dashboard. The file contains the entire set of parameters displayed in the GUI Configuration Dashboard along with the macro keys, COM port number, and

dial string. The file contents are encrypted to protect usernames and passwords. The configuration files are located in the same directory as the GUI application.

1. If the file was saved with restricted access, enter the username and password into the **Current Login** text boxes, or leave them empty if access is not restricted. The username and password are case-sensitive.

Read Unit Vite	Unit COM	Dial Modem	ATDT			10
Current Login ad	min	admi n	Terminal	FACTORY MASTER	Read File	Write File

2. Click the **Read File** button (Click again to cancel)

Read Unit	Write Unit	COM 2	•	Dial Modem	ATDT	
Current Login	admin		adı	min	Terminal	FACTORY MASTER Read File Write File

- 3. If prompted, click **YES** to proceed.
- 4. The file encryption is based on a Personal Identification Number (PIN). The GUI will prompt once for the PIN when writing or reading a file, and will use that PIN as the encryption key until the GUI closes. Enter a fourdigit PIN by clicking numbers on the PIN pad or typing numbers on the keyboard, then click **Enter** on the PIN pad or press **Enter** on the keyboard.

```
Click or Type 4-Digit PIN (encrypt names/pswds) then Press Enter
```

		7	8 9		
		4	5 6		
		1	2 3		
		Del	0 Enter		
Login admin	admin	Terminal	FACTORY MA	STER Read File	Wate File

5. A list of configuration files will appear. Click the desired filename from the list. If the username, password, and PIN are correct the configuration will immediately load into the GUI.

#### Flash New Firmware into a USR4204

The GUI simplifies the process of flashing firmware into a USR4204.



The USR4204 firmware (\*.hex) files must be located in the same directory as the GUI application.

#### To Flash Firmware into a Local USR4204

- Connect the serial port of the PC to the USR4204 Terminal Port. (see the <u>USR4204 User Guide</u> for cabling requirements)
- 2. Launch the GUI application.
- If security is enabled in the USR4204, enter a valid username and password into the Current Login text boxes. The username and password are case-sensitive.



4. Every time the GUI launches, it automatically recalls the COM port number from the previous session. If

necessary, use the **COM** pull-down box to select the COM port (1 through 16) that the computer's operating system assigned to the serial port.

5. Click the **Flash New Code** button on the GUI Configuration Dashboard.



- 6. At the "Are You Sure?" prompt, click **YES.** A list of .hex files will appear. (Click the **Flash New Code** button again to cancel)
- 7. Click desired filename from the list. Flashing will begin immediately.

After flashing finishes, the GUI will switch to the **Terminal** screen and display the USR4204's main menu.

#### To Flash Firmware into a Remote USR4204

When the computer's COM port is assigned to a data communications device (e.g. analog modem) that can connect over a network to another data communications device at a remote location and interface thru a USR4204 to the console port of the remote target equipment (as illustrated in Figure 5), the GUI can use the same connectivity to manage the remotely-located USR4204.

#### USR4204 GUI User Guide



- 1. Launch the GUI application.
- 2. If security is enabled in the USR4204, enter a valid username and password into the GUI **Current Login** text boxes. The username and password are case-sensitive.



 Every time the GUI launches, it automatically recalls the COM port number from the previous session. If necessary, use the COM pull-down box to select the COM port (1 through 16) that the computer's operating system assigned to the local modem.

					<
Flash New Code	Read Unit	Write Unit	COM 2	•	Dial Modem
Debug	Current Lo	gin admin	イム	a	lmi n
i and a second			4/-		

4. Every time the GUI launches, it also recalls the dial string from the previous session. If necessary, enter into the **Dial Modem text box** a dial string that commands the local modem to connect to the remote modem.



5. Click the **Dial Modem** button. The GUI will send the dial string to the local modem. The local modem will dial the remote modem, connect, and the GUI will automatically login to the USR4204 and switch to the terminal screen to display the USR4204 Main Menu.



6. Click the **Terminal** button to return to the Configuration Dashboard.



Notice that the **Dial Modem** button has changed to a **Hang Up** button.

- 7. Click the **Flash New Code** button on the GUI Configuration Dashboard.
- 8. At the "Are You Sure?" prompt, click **YES.** A list of .hex files will appear. (Click the **Flash New Code** button again to cancel)
- 9. Click desired filename from the list. Flashing will begin immediately.

After flashing finishes, the GUI will switch to the Terminal screen and display the remote USR4204's main menu.

#### Disconnect from the Remote USR4204

From the Configuration Dashboard, click the Hang Up button.



When the connection has ended, the **Hang Up** button changes back to a **Dial Modem** button.



The GUI does not support connections to packet networks that use IP addressing (e.g. LAN or cellular data networks). In that case consider using 3<sup>rd</sup> party modem emulation middleware in your Windows environment to translate the modem dial string and COM port into an IP address over TCP.

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