

UWTerminal *smartBASIC Quick Start Guide*

Introduction

While UWTerminal is primarily a terminal program for communicating with a Laird module, you can run *smart* BASIC programs from within the UWTerminal program itself to automate terminal emulation functionality. This allows users to become familiar with the fundamentals of *smart* BASIC without the need for any additional hardware. However, you will not be able to include any module functionality such as GPIO or Bluetooth commands.

Requirements

- Windows XP, or later PC
- UWTerminal v6.21, or later
- Text Editor of your choice
- smartBASIC User Manual Release v1.0 or later

Writing a *smart*BASIC Program

From within your preferred text editor, write a simple *smart*BASIC program; for example, a simple for/next loop to print "Hello world" to the screen 5 times.

Save the program as a text file using a ".sb" extension to the same folder where UW terminal is to be located.

```
dim n
for n = 1 to 5
print "Hello world\n"
next
```

UWTerminal Setup

If you haven't already, extract the UWTerminal to a folder on your PC. It is a standalone executable and does not need installing.

Open UWTerminal and on the opening screen click Accept.

🕎 UwTerminal v6.21	3
Terminal BASIC Config About	
Accept Decline	
This application is provided by Laird Technologies without warranty. You are welcome to check our website for the latest version.	Â
This message is displayed EITHER because "accept" is not specified in the command line OR at least one command line option has been specified with an invalid parameter.	ш
You can launch this application and bypass this window by creating a shortcut link and passing ACCEPT as a command line option. Other command line options are:-	
ACCEPT Bypass About screen on startup	
CDM=n [1255] specifies a comport number	
BAUD=n [1200921600] Could be limited to 115200 depending on PC hardware	
STOP=n [12]	
DATA=n [78]	-

Figure 1: UWTerminal start screen

Before you can access the "BASIC" tab you must first configure a COM port, even if the COM port is not being used. Once the COM port is configured, click **OK**. Note that the COM port defined is not actually used so the values are not important, but be aware that it has to exist on the PC.

Stop Bits 1 -	_engtł
Line Terminator C CR C LF C CR LF C LF CR C LF CR	

Figure 2: Configuring the COM port

You can now click the "BASIC" tab, which takes you to a blank screen.

🕎 UwTermina v6.21			
Terminal BASIC Config About			
CTS DSR DCD RIO		Clear	
[COM10:115200,N,8,1]{cr}	COMMAND	Tx	Rx

Figure 3: Blank BASIC tab

Compiling your *smart*BASIC program

You can check the spelling and location of your *smart*BASIC program using the command "at+dir" followed by carriage return, which will list all of the files in the folder where UWTerminal resides. In the example below we are looking for the "HelloWorld.sb" program previously saved from the text editor.

		`		
Termir	nal BASIC Config About			
CTS	DSR DCD RIO		Clear	
at+d:	ir			
06	29 29			
06	919)			
06	BL600_R2_Firmware_V0_0_1			
06	HelloWorld.sb			
06	marktest			
06	UwTerminal.def			
06	UwTerminal.exe			
06	XComp_B1600Med_46CF_8431			
06	XComp_B1600Med_46CF_8831			
06	XComp_B1600Med_9E56_5D81			
06	XComp_B1600Med_9E56_5F81			
00				

Figure 4: Checking the location of the programs

Type the command "run" followed by the filename of your *smart* BASIC program as in the example below:

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run "Helloworld"

Tel: +1-866-434-4300 wireless.support@lairdtech.com www.lairdtech.com/wireless The program compiles and runs automatically after you see the compile end message.

"00" indicates a successful command.



Figure 5: Compiling and successfully running your smart BASIC program

Running your smartBASIC program

If a program is already compiled, you can run the program directly using "run". In the example below the same command used to compile the program was used again.

run "Helloworld"

wTerminal v6.21		l	
Terminal BASIC Config About	2		_
CTS DSR DCD RI		Clear	
run "HelloWorld"Hello world			
Hello world			
Hello world			
Hello world			
Heilo World			
00			
[COM10:115200,N,8,1]{cr}	COMMAND	Tx	Rx

Figure 6: Running a pre-compiled smart BASIC program

"00" printed to screen means the action was successful.

Resources

For more information on programming with *smart*BASIC, please refer to the *smart*BASIC User Manual and other documentation on the <u>BL600 product page</u>.