SC0092
Sample Code

AT32F407_437 HTTP Client

Introduction

This sample code is used to demonstrate how the HTTP Client updates App code on the AT-START evaluation board (with Ethernet network).

Applicable products:

Part number	AT32F407xx
	AT32F437xx

List of peripherals:

Main peripherals	EMAC
	GPIO
	USART

1 Application method

1.1 Hardware requirements

1) LED2/LED3
2) USART1(PA9/PA10)
3) AT-START-F407 or AT-START-F437 evaluation board
4) Ethernet cable

1.2 Software requirements

1) SourceCode
   - utilities\sc0092\source_code\http_client, Ethernet source code
   - utilities\sc0092\source_code\app_led3_toggle, update firmware for testing
   - driver, AT32 peripheral library
2) HTTP server: hfs.exe
3) Doc
   - SC0092_AT32F407_437_HTTP_Client

Note: All projects are built around keil 5. If users want to use them in other compiling environments, please refer to AT32F407_Firmware_Library_V2.x.x/project/at_start_f407/templates (such as IAR6/7, keil 4/5) for a simple change.

1.3 Example of application

1) Open the http_client source code, compile and download to the evaluation board;
2) Configure the PC IP address segment to be the same as that of evaluation board, as shown in Figure 1;
3) Open the *hfs.exe* under AppRelease, and execute HTTP server;
4) Place the .bin file compiled from app_led3_toggle into “hfs”;
5) Press the USER key on the evaluation board to start transmission;
6) After completion of transmission, the serial port assistant will print “download finished”, as shown in Figure 2;
7) The hfs file server prompts completion of transmission, as shown in Figure 3;
8) Press the Reset key, and LED3 toggles, indicating successful transmission.

Figure 1. Set PC network segment

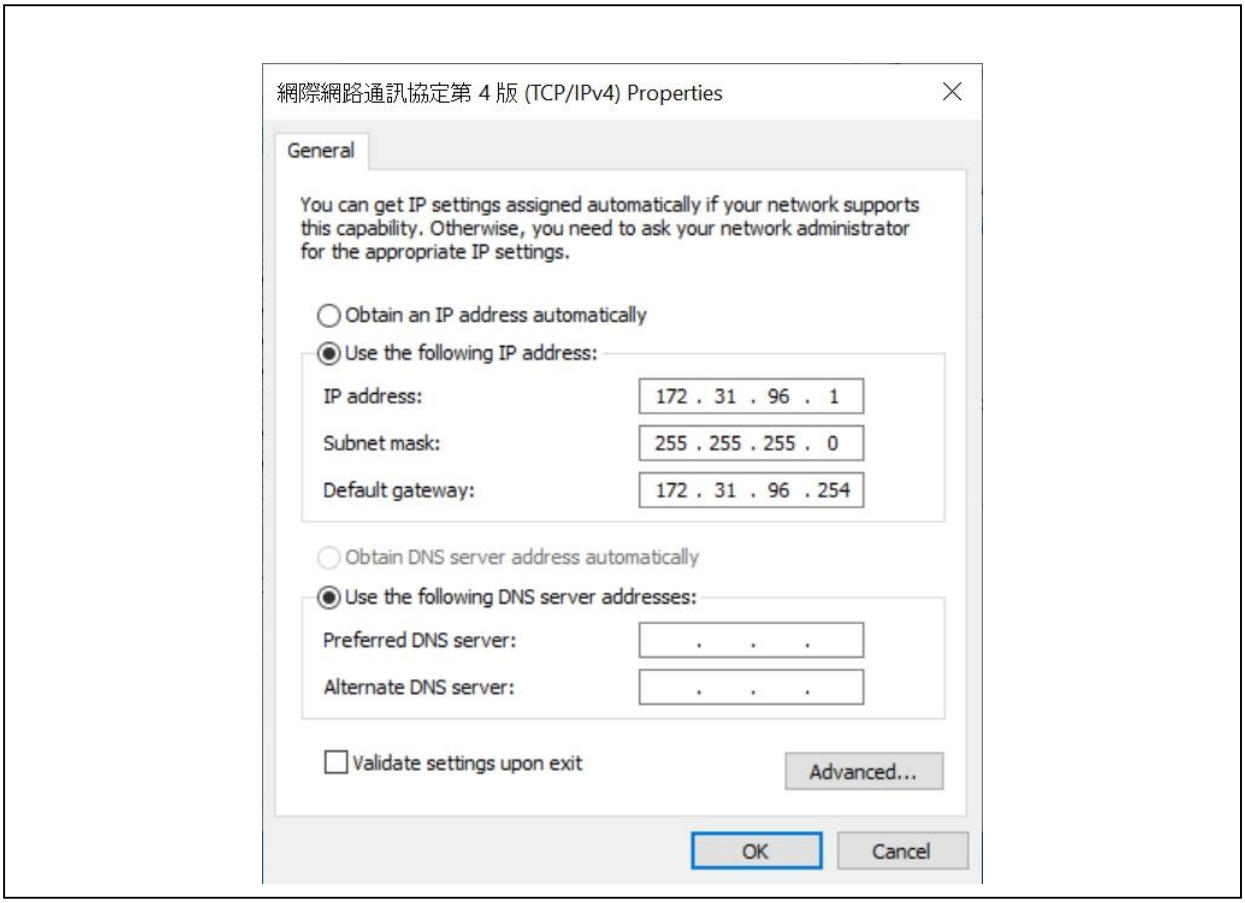


Figure 2. Serial port assistant displays transmission completed

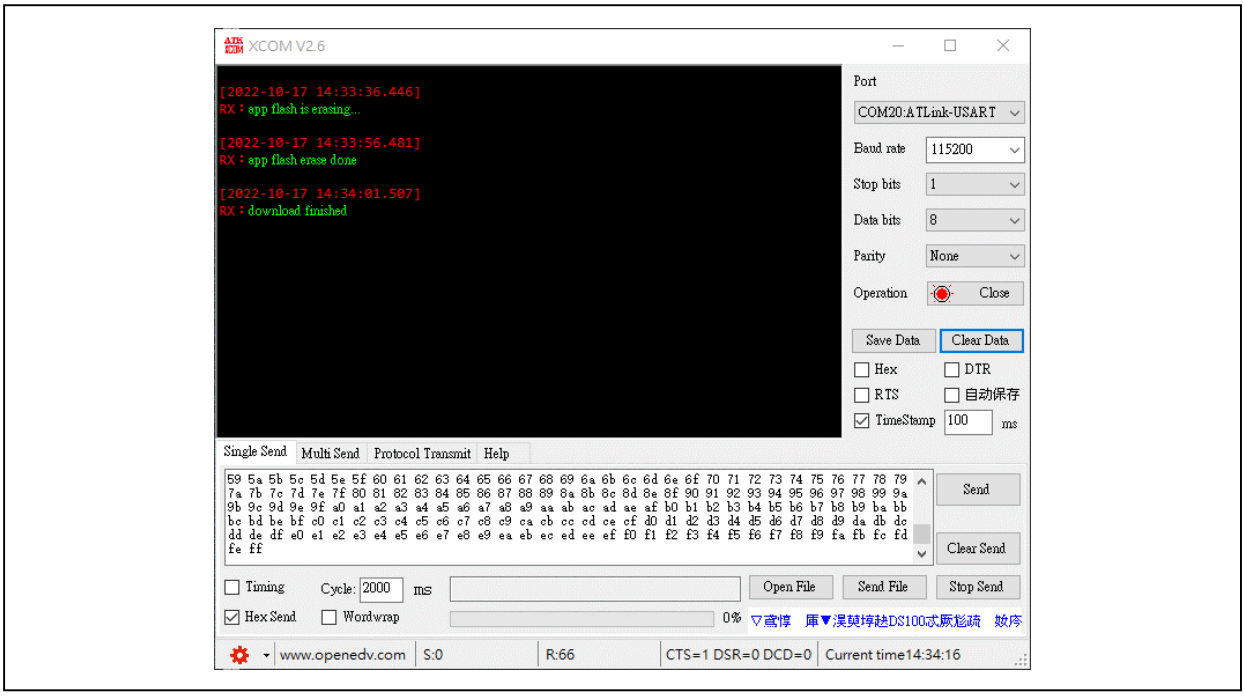
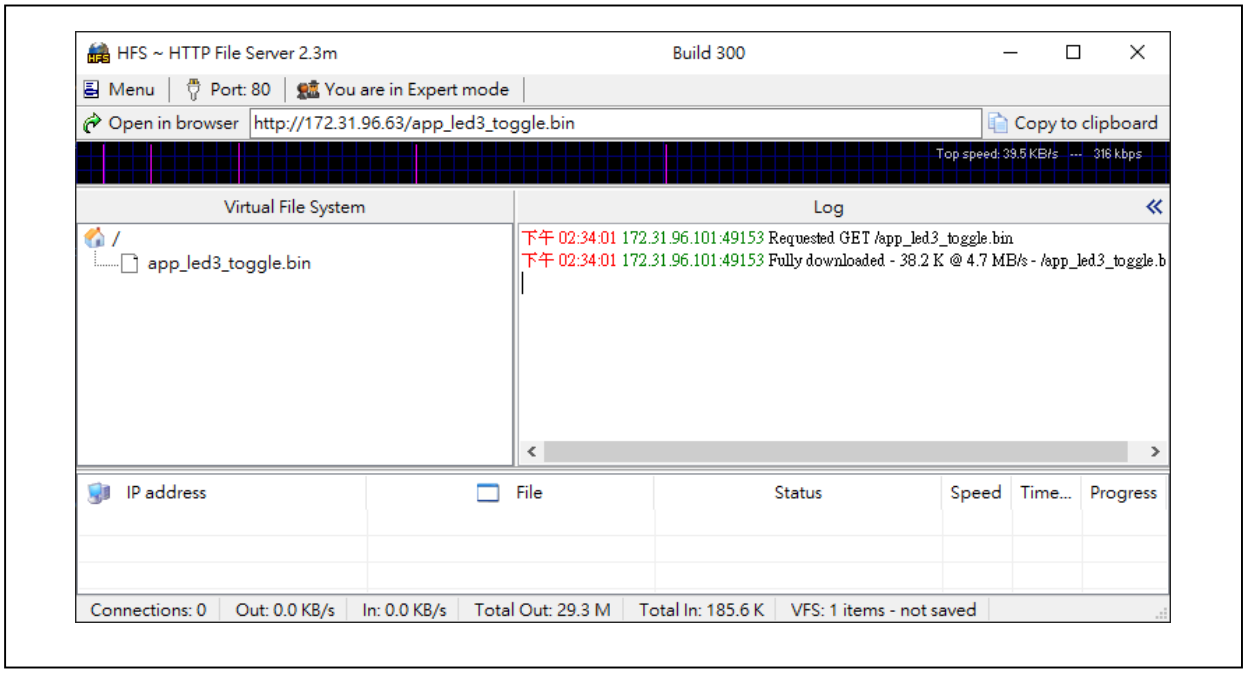


Figure 3. HFS prompts transmission completed



2 Revision history

Table 1. Document revision history

Date	Version	Revision note
2022.10.17	2.0.0	Initial release.

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