

Aport-212P Appendix

1 flash layout

Start	End	Description
0x0000.0000	0x0000.3FFF	Flash loader(16K)
0x0000.4000	0x0000.4FFF	Factory settings(4K)
0x0000.5000	0x0000.5FFF	User settings(4K)
0x0000.6000	0x0003.7FFF	Firmware(200K)
0x0003.8000	0x0007.FFFF	Web(288K)

User settings is for user configuration setting

Firmware=kernel + user's application code

2 API

2.1 Network API: three network API are supported (Lwip, Lwip socket and BSD socket)

2.1.1 Lwip network connection api

2.1.1.1 netconn_accept/netconn_rcv/netconn_write

2.1.1.2 Example: E01_echoServer_netconn_api

2.1.2 Lwip socket api

2.1.2.1 lwip_socket/lwip_bind/lwip_listen

2.1.2.2 Example: E02_echoServer_lwip_api

2.1.3 BSD socket api

2.1.3.1 socket/ bind/ listen

2.1.3.2 Example: E03_echoServer_bsdsocket_api

2.2 Serial port control

2.2.1 **prg_uart_Open/ prg_uart_Close** refer to **Kernel\Include\api \serial.h**

2.2.2 Example: E04_S2Eserver_bsdsocket_api (non-block)

2.3 EEPROM

2.3.1 **prg_eeprom_Open/ prg_eeprom_WriteBlock**, refer to **Kernel\Include\api \settings_api.h**

2.3.2 Example: E05_web&settings

2.4 Web

2.4.1 void user_web_init(unsigned short (* user_web)(char *name, char *ajax_buf_ptr, char method, char *post_data, unsigned short post_len));

2.4.2 **ajax** is user defined application

2.4.3 The html needs to be converted to anf file by Manager utility software.

Please refer to software getting start.

2.4.4 Example: E05_web&settings

2.4.5 The default web page is shown as followed. It is used to configured the network and serial setting and serial to ethernet operation mode.

