

Prepared (also subject responsible if other) Åke Jernberger		No. 109 21-SPB800S Serial_to_WiFi		
Approved	Checked	Date 2012-07-11	Rev C	Reference

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1 General

This document comprises the Release Note for the titled product. The FW is intended for the SPB800S product family. The basic functionality of the product is to provide a bridge between a serial port and a wireless TCP socket.

2 Release Contents

The release note is valid for the release of the H&D Wireless Serial_to_WiFi firmware for SPB800S and BOX800. The firmware is in binary for as a .hlf file.

3 Product Status

3.1 Functions status in release 1.3

- 802.11b/g standard compliance
- Keep alive heartbeat
- Wireless Security
 - Open networks
 - WEP
 - WPA/WPA2 personal
- IP Network Support
 - Acquiring an IP address through DHCP
 - Static IP Address, mask, default gateway
 - TCP server/client
 - TCP port
- Serial Port Support
 - RS232/RS485
 - Half/full duplex
 - Baud Rates
 - 9600, 38400, 57600, 115200, 230400
 - Default Baud Rate increased to 115200
 - Data Bits
 - 5,6,7 or 8
 - Stop Bits
 - 1 or 2
 - Parity
 - Even, odd, none
 - Flow Control
- Soft AP support
 - DHCP Server
 - Open or WPA/WPA2 PSK protection
 - Up to 3 stations supported in parallel.
 - Time out on inactive stations, allows connections of new stations.
- Power Save
 - Enable

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- PS poll
 - Traffic Timeout
 - PS start Delay
 - RX all DTIM
 - Listen Interval
- Configuration
 - Via serial port
 - Via Web page in both AP and Station mode
- Upgrade
 - Via serial port
 - Via web page
- Setup protection
 - On Serial port
 - On Web page
 - http-basic
 - http-digest
- WLAN Heartbeat
- Support for WPA/WPA2 encryption in Soft AP mode
- Power Save support
- Client time outs in Soft AP, up to three clients are now supported. A fourth station request will be reject unless any earlier associated station has been inactive for more than 10 minutes.
- Firmware upgrade via webpage and WLAN connection

See the user guides [1543-HDA800 User Manual or 1453-BOX800 User Manual] for more information.

3.2 Not supported functions

Only infrastructure mode (BSS, Basic Service Set, connect to WiFi Access Point) and Soft AP is supported. Connection to another WiFi station (IBSS, independent Basic Service Set) is not supported.

Scanning of networks is not supported.

3.3 Release information

Corrected bugs in this version 1.3.3:

- Pins RS232/RS485_SEL and DUPLEX_SEL initialized wrong

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3.4 Known Limitations

Ticket #614: SPB800 in Soft AP works poorly together with win XP in Power Save. Problem appears with some WLAN adapters that have Continuous Awake Mode disabled.

Ticket #641: IP fields cannot be empty, even if DHCP client is enabled. The configuration web page will not accept the fields for IP-address, mask and default gateway to be left empty even if they are not required when DHCP client is enabled.

3.5 Hardware Compatibility

Hardware	Firmware Release					
	Beta r2159	1.13 r2238	1.22 r2841	1.30 r3465	1.31 r4089	1.32 r4172
SPB800-BxP R1B	OK	OK	Not	Not	Not	Not
SPB800-BxP R2A	OK	OK	Not	Not	Not	Not
SPB800-BxP R3A	OK	OK	Not	Not	Not	Not
SPB800-BxP R4A	Not	Not	OK	OK	OK	OK
SPB800-BxP R5A	Not	Not	OK	OK	OK	OK
SPB800-BxP R5B	Not	Not	OK	OK	OK	OK
SPB800-DxP R2A	OK	OK	Not	Not	Not	Not
SPB800-DxP R3A	OK	OK	Not	Not	Not	Not
SPB800-DxP R4A	Not	Not	OK	OK	OK	OK
SPB800-DxP R6A	Not	Not	OK	OK	OK	OK
SPB800-E R1A	Not	Not	OK	OK	OK	OK
SPB800-E R2A	Not	Not	OK	OK	OK	OK
BOX800M-R1A	OK	OK	Not	Not	Not	Not
BOX800M-R2A	Not	Not	OK	OK	OK	OK

Note: x stands for both operating temperature range versions, C = 0°C – 70 °C and D = -40°C to 85°C.

3.6 References