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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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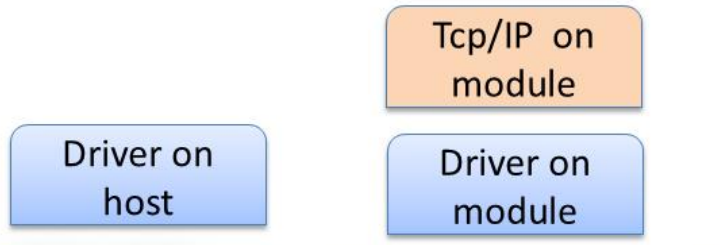




H&D Wireless Wi-Fi Portfolio



CUSTOMER DIY



WiFi modems

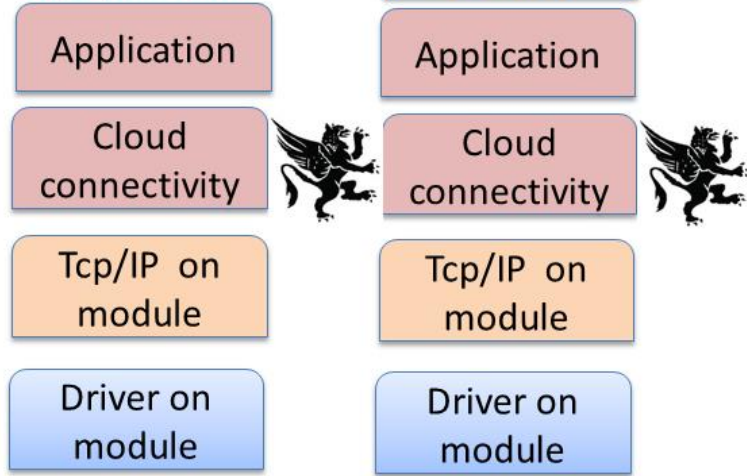


WiFi + tcp/ip stacks

[HDG204](#) [HDG200](#)
[HDG205](#) [HDG104](#)

[SPB800](#) [SPB820](#) [HDG820](#)

H&D R&D Engagement



WiFi - Cloud connectivity

[SPB840](#), [HDG840](#)



WiFi- Cloud Services

[SPB899](#), [HDG899](#)

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Wi-Fi Guide



2015 Wi-Fi product selector for M2M, SmartHome and IoT applications 1(2)

Wi-Fi #	SPB800S/P	SPB820P	HDG820P	HDG104	HDG205	HDG200
Picture Wi-Fi products		 New & in Mp	 New & in Mp		 New & in Mp	 New & in Mp
Status MOQ	Mass Production	Mass Production	Mass Prod. MOQ 2,5K	Mass Production	Mass Prod. MOQ 2,5K	Mass Prod. MOQ 2,5K
WLAN 802.11, Category	b/g + On board IP stack	b/g/n + On board IP stack	b/g/n + On board IP stack	b/g	b/g/n	b/g/n
Description	SMD WiFi board + integrated tcp/ip stack and full serial port application. Or API Pico mode	SMD WiFi board + integrated tcp/ip stack . API Pico mode	WiFi SiP 802.11 b/g/n +integrated tcp/ip stack . API Pico mode	WiFi SiP 802.11 b/g component in 44-pin QFN,	WiFi SiP 802.11 b/g/n component in 44-pin QFN For embedded, STM32 cortex	WiFi SiP 802.11 b/g/n component in 44-pin QFN,. For Linux systems
Wireless config. softAP	Yes	Yes	Yes	Yes*	Yes	Yes
WPS	n/a	Yes	Yes	n/a	n/a	n/a
Lowest current: Sleep current:	50nA <250uA	50nA <250uA	50nA <250uA	<15uA <30uA	<15uA <30uA	<11uA <40uA
Wi-Fi drivers. SDK:s	http://pico.hd-wireless.se	http://pico.hd-wireless.se	http://pico.hd-wireless.se	Yes*	Yes*	http://linux.hd-wireless.se
Size	34x22x5mm	26x21x3,5mm	8x8x1,2mm	7,5x7,5x1,4mm	8x8x1,2mm	8x8x1,2mm
Certifications	FCC/CE/IC	FCC/CE/IC	Pre FCC/CE/IC	Pre FCC/CE/IC	Pre FCC/CE/IC	Pre FCC/CE/IC
Interfaces	UART	UART/SPI	UART/SPI	SDIO/SPI	SDIO/SPI	SDIO/SPI
EVK / design kits	HDA800	HDA820	HDA820	SPB104	SPB205	SPB200



- Wi-Fi Modules & SiP:s**
- ✓ High level of Integration
 - ✓ FCC, CE Certified
 - ✓ Reference design
 - ✓ APP and Cloud ready



* Included in H&D Wireless software suite for supported and selected host MCU platforms. www.hd-wireless.se / products/ Software & tools. ** Supported on Freescale Tower platform EVK.

Wi-Fi product selector for M2M, SmartHome and IoT applications 2(2)

Wi-Fi #	SPB104	SPB205	SPB200	HDA800	HDA820
Picture EVK:s / Design vehicles					
Status	Stocked	Stocked	Stocked	Stocked	Stocked
WLAN 802.11, Category	b/g	b/g/n	b/g/n	b/g + On board IP stack	b/g/n + On board IP stack
Description	Design vehicle , SD card, HDG104 Wi-Fi SIP on board.	Design vehicle , SD card HDG205 Wi-Fi SIP on board, embedded, STM32 cortex	Design vehicle , SD card HDG200 Wi-Fi SIP on board, Linux	EVK for the SPB800 WLAN Module solution	EVK for the SPB820P WLAN Module HDG820P SiP solution
Wi-Fi drivers. SDK:s *	<p>The H&D Wireless software* implements the full IEEE 802.11 wireless LAN MAC protocol as well as a platform independent WiFi Software SDK (oWL ©)</p>	<p>The H&D Wireless software* implements the full IEEE 802.11 wireless LAN MAC protocol as well as a platform independent WiFi Software SDK (oWL ©)</p>	<p>http://linux.hd-wireless.se</p> <p>Linux Reference driver, generic library</p>	<p>http://pico.hd-wireless.se</p> <p>The oWL Pico API and reference design is designed to be compiled and executed on multiple platforms.</p>	<p>http://pico.hd-wireless.se</p> <p>The oWL Pico API and reference design is designed to be compiled and executed on multiple platforms.</p>



SPB820P Wi-Fi module



HDG820P Ref. design



HDG820P Wi-Fi SiP 8x8mm



Owl Pico API



Owl API

www.hd-wireless.se

sales@hd-wireless.se


- * H&D Wireless provide license free (0 USD) Wi-Fi drivers , SDK:s for selected host MCU platforms. [www.hd-wireless.se/products/Software & tools](http://www.hd-wireless.se/products/Software%20&%20tools)
- Design and specification are subject to change without notice
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Wi-Fi product selector for M2M, SmartHome and IoT applications

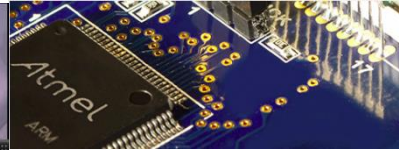
Supported H&D Wi-Fi driver / Atmel ARM EVK





 SAM9M10G45-EK SAMG35-EK SAM9M10-EKES SAM9RL-EK SAM9X5-EK SAM9N12 SAM3S-EK SAM4S-EK SAM4S

Wi-Fi SPB104 b/g	✓	✓	✓	✓	✓	S	S	S	✓
Wi-Fi SPB204 b/g	✓	✓	✓	✓	✓	S	S	S	✓
Wi-Fi SPB200 b/g/n									✓



Wi-Fi Modules, SiP:s, EVK

- Supported on Leading Micro-controller Platforms for quick design turnaround
- Lowest Power Consumption
- High Level of Integration
- High System Performance



Supported H&D Hardware / Atmel XMEGA/AVR EVK



EVK1104 EVK1105 EVK1100 EVK1101 XMEGA-A1 Xplained

Wi-Fi SPB104 b/g	✓	✓	✓	✓	n/a
Wi-Fi SPB204 b/g	✓	✓	✓	✓	n/a
Wi-Fi SPB105 b/g	✓	✓	n/a	n/a	n/a
Wi-Fi SPB800E b/g + TCP/IP	n/a	n/a	n/a	n/a	✓
H&D Web server ref design	✓	✓	✓	✓	✓



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Cortex
Intelligent Processors by ARM*

Wi-Fi Guide






Wi-Fi product selector for M2M, SmartHome and IoT applications

<p>STM32F4</p>  	<p>STM32F1</p>  	<p>SPB204 with uSD adapter</p>  	<p>SPB204 Wi-Fi SD EVK</p>  
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Wi-Fi Modules, SiP:s, EVK

- Supported on Leading Micro-controller Platforms for quick design turnaround
- Lowest Power Consumption
- High Level of Integration
- High System Performance



Wi-Fi / Supported host architectures	STM32F1	STM32F2	STM32F4
<p>SPB104 Wi-Fi</p> 	✓ OK	✓ OK	✓ OK
<p>SPB204 Wi-Fi b/g</p> 	✓ OK	✓ OK	✓ OK
<p>SPB205 Wi-Fi b/g/n</p> 			✓ OK

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