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Wi-Fi Guide



2016 Wi-Fi product selector for M2M, SmartHome and IoT applications 1(4)



Driver on host

Tcp/IP on module

Driver on module

Cloud Services

Application profile

Cloud connectivity

Tcp/IP on module

Driver on module

Get Your IoT products to the market quickly with the Turn-key Griffin™ Wi-Fi Cloud platform

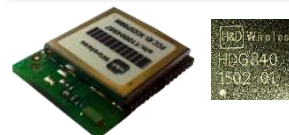
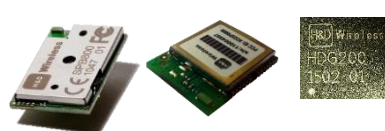
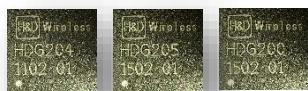
Griffin is built on Microsoft Azure to scale all the way with the customer to handle million of devices



GRIFFIN™



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WiFi modems

WiFi + tcp/ip stacks

WiFi – Cloud connectivity & services
SPB840, HDG840

HDG200 HDG203
HDG205 SPB209A







SPB800 SPB820 HDG820

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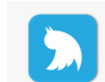
2016 Wi-Fi product selector for M2M, Smart Home and IoT applications 2(4)

Wi-Fi #	SPB209A	SPB820P	HDG820P	HDG203	HDG205	HDG200
Picture Wi-Fi products	 New		 New & in Mp	 New	 New & in Mp	
Status MOQ	Samples MOQ 5K	Mass Production MOQ 2,5K	Mass Prod. MOQ 2,5K	Samples MOQ 100K	Mass Prod. MOQ 2,5K	Mass Prod. MOQ 2,5K
WLAN 802.11, Category	b/g/n/ac	b/g/n + On board IP stack	b/g/n + On board IP stack	b/g/n	b/g/n	b/g/n
Description	SMD WiFi board For embedded and Linux systems	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/n component in 44- pin QFN, For embedded and Linux systems	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	Yes	YES	n/a
Lowest current: Sleep current:	Wi-Fi/BT/NFC see data sheet	50nA <250uA	50nA <250uA	<15uA <30uA	<15uA <30uA	<11uA <40uA
Wi-Fi drivers. SDK:s	http://linux.hd-wireless.se	http://pico.hd-wireless.se	http://pico.hd-wireless.se	Yes*	Yes*	http://linux.hd-wireless.se
Size	14x14x2,5mm	26x21x3,5mm	8x8x1,2mm	6x6x1,4mm	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	SDIO 3.0, UART, I2C, GPIO:s – Host / PCM – BT Audio	UART/SPI	UART/SPI	SDIO/SPI	SDIO/SPI	SDIO/SPI
EVK / design kits	SPB209A EVB	HDA820	HDA820	SPB203	SPB205	SPB200



Wi-Fi Modules & SiP:s

- ✓ High level of Integration
- ✓ FCC, CE Certified
- ✓ Reference design
- ✓ APP and Cloud ready



Wi-Fi Guide



Wi-Fi product selector for M2M, SmartHome and IoT applications 3(4)

Wi-Fi #	SPB203	SPB205	SPB200	SPB209 EVB	HDA820
Picture EVK:s / Design vehicles					
Status	Stocked	Stocked	Stocked	Samples	Stocked
WLAN 802.11, Category	b/g/n	b/g/n	b/g/n	b/g/n/ac	b/g/n + On board IP stack
Description	Design vehicle , SD card, HDG203 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 SPB209 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://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>



SPB820P Wi-Fi module



HDG820P Ref. design



HDG820P Wi-Fi SiP 8x8mm



Owl Pico API



Owl API



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- * 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)
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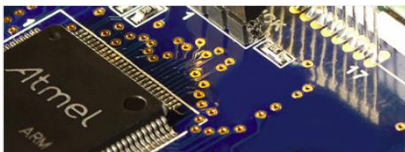




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Wi-Fi product selector for M2M, SmartHome and IoT applications 4(4)



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SAMA5D4 XPLAINED (LINUX)
SAMD21 Xplained (RTOS)
SAMG53 Xplained (RTOS)

	<i>SAMA5D4 XPLAINED (LINUX)</i>	<i>SAMD21 Xplained (RTOS)</i>	<i>SAMG53 Xplained (RTOS)</i>		
Wi-Fi SPB203 b/g/n EVB	✓				
Wi-Fi SPB200B b/g/n EVB	✓				
Wi-Fi SPB205B b/g/n EVB	✓		✓		
Wi-Fi SPB820B b/g/n EVB	✓	✓	✓		
Wi-Fi SPB840B b/g/n EVB	✓		✓		
Wi-Fi SPB209A a/b/g/n/ac EVB	✓				

Wi-Fi Modules, SiP:s, EVK

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

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Cortex
Intelligent Processors by ARM*

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

Wi-Fi Modules, SiP:s, EVK

- Supported on Leading Micro-controller Platforms for quick design turnaround
- Lowest Power Consumption
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