The strongest connection in a wireless world!

With the products of connectBlue, one of the leading manufacturers of Bluetooth and WLAN communications solutions, we provide you robust, secure and reliable wireless solutions for demanding M2M applications. Based on Bluetooth® or WLAN connectBlue offers ready-to-use products and modules as well as custom design solutions in both hardware and software. connectBlue can provide you with wireless modules adapted for your needs in industrial embedded applications. The modules are designed to provide the optimum radio performance with outstanding ease of integration.

- Radio Type Approved for Europe, US and Canada
- Compliant with EMC, Safety and Medical standards
- Lead free and RoHS compliant
- Low power consumption
- Outstanding electrical and mechanical compatibility
- Compatible modules over time and technologies
- Pin compatible OEM product range
- Outstanding performance
- Industrial and automotive temperature range
- Bluetooth® and Wireless LAN co-existence





Bluetooth® 2.0 OEM Serial Port Adapters (SPA)



	OEMSPA310	OEMSPA311	OEMSPA331	OEMSPA312	OEMSPA332	OEMSPA333	
Standard Wireless Standard Bluetooth Qualification Bluetooth Profiles	021101710120	02110171000					
Radio Antenna Output Power Range Int./Ext. ²⁾	Internal 3.5 dBm 75 m	Internal/External 7 dBm 75 m / 150 m	Internal/External 17 dBm 200 m / 300 m	Internal/External 7 dBm 150 m / 150 m	Internal/External 17 dBm 300 m / 300 m	Internal/External 20 dBm 300 m / 400 m	
Interface UART Logic-Level RS-232 RS-422/485 Max. Baudrate Flow Control On/Off	Yes 921.6k Yes	Yes Option ³⁾ 921.6k Yes		Yes Yes Option ³⁾ 921.6k Yes		Yes Yes Option ³⁾ 921.6k Yes	
Software Features AT Command Support Max. Numbers of Slaves Security Quality of Service (QoS)		Yes 1/3/7 ⁴⁾ Yes ⁴⁾ Yes					
Firmware Point-to-Point Point-to-Multipoint Repeater I/O I ² C	Yes Option Option Option		Yes Yes 				
Power Supply Voltage Current Cons. (min.) Current Cons. (Average Tx.)	3.0 - 6.0 VDC 7.9 mA 17 mA	3.0 - 6.0 VDC 0.5 mA 17 mA	3.3 - 6.0 VDC 10 mA 22 mA	3.0 - 6.0 VDC 1.0 mA 17 mA	3.3 - 6.0 VDC 10 mA 22 mA	3.3 - 6.0 VDC 16 mA 45 mA	
Connectors Board-to-Board 20 pin Header JST (6-pol) Flexfilm Solder Pads	Yes Yes	Yes Option Option Yes		Yes Option Option Option		Yes Option 	
Mechanical Temp. Range Machine Mountable Mounting Holes Dimensions (mm) Evaluation Board	-30°C to +85°C Yes Yes 16 x 36 x 2.4 RS-232 & USB			-30°C to +85°C Yes 23 x 36 x 4.9 RS-232 & USB			



The complete solution - Products and engineering services

Any device can be enabled with WLAN and Bluetooth technologies by using connectBlue products. You can choose to develop and install solutions yourself using the industrial products, OEM products and advanced development platform for efficient implementation, or you can benefit from the complete range of our engineering services.

connectBlue is a leading provider of wireless solutions for demanding applications in segments like industrial automation, medical, instrumentation, diagnostics, logistics/transportation, vehicles and point of sales. Based on Bluetooth® technology, WLAN and 802.15.4 these products and modules are provided ready-to-use as well as custom design solutions in both hardware and software.



	SPA312i	RSPA333s	WSPA311gi	RWSPA311gs	OWSPA311g	OWLAN211g		
Standard Wireless Standard Bluetooth Profiles Wireless LAN Version	Bluetooth 2.0 SPP DUN FTP OPP		Wireless LAN 802.11b+g (54 Mbit/s.)		Wireless LAN 802.11b+g (54 Mbit/s.)			
Radio Antenna Output Power Range Int./Ext. ²⁾	Internal 7 dBm 150 m	External 20 dBm 400 m	Internal 20 dBm 150 m	External 20 dBm 250 m	Internal / External ¹⁾ 20 dBm 150 m / 250 m			
Interface UART Logic-Level RS-232 RS-422/485 Max. Baudrate Flow Control On/Off SPI	Yes 921.6 k Yes 	Yes Yes 921.6 k Yes	Yes 921.6 k Yes	Yes Yes 921.6 k Yes	Yes Option ³⁾ 2.7 M Yes	 Max. 60 MHz		
Software Features AT Command Support Max. Numbers of Slaves Security Quality of Service (QoS)	Yes 1/3/7 ⁴⁾ Yes ⁵⁾ Yes	Yes 7 Yes ⁵⁾ Yes	Yes 7 WEP, WPA, WPA2, LEAP 		Yes 7 WEP, WPA, WPA2, LEAP	 WEP, WPA, WPA2 802.11e		
Firmware Point-to-Point Point-to-Multipoint Repeater I/O OBEX / FTP / OPP	Yes Option Option Option	Yes Yes 	Yes Yes 		Yes Yes 			
Power Supply Voltage Current Cons. (min.) Current Cons. (Average Tx.)	4.0 - 6.0 VDC 1.0 mA 27 mA	8.0 - 30.0 VDC 10 mA @9V 50 mA @9V	4.0 - 6.0 VDC tbd tbd	8.0 - 30.0 VDC tbd tbd	3.3 - 5.5 VDC 0.4 mA @3.3V 143 mA @3.3V	3.3 - 5.5 VDC 0.2 mA @3.6V 170 mA @3.6V		
Connectors Board-to-Board 20 pin Header JST (6-pol) Flexfilm Solder Pads 9-pin D-SUB	 Yes		 Yes		Yes Option Yes 	Yes Option 		
Mechanical Temp. Range Machine Mountable Mounting Holes Housing Dimensions (mm) Evaluation Board	-30°C to +85°C Yes Plastic, IP 20 63 x 80 x 26	-30°C to +85°C Yes Metal, IP 65 76 x 85 x 35 	-30°C to +85°C Yes Plastic, IP 20 63 x 80 x 26 	-30°C to +85°C Yes Metal, IP 65 76 x 85 x 35 	-30°C to +85°C Yes Yes 23 x 36 x 3.1 RS-232 & USB	-30°C to +85°C Yes 23 x 36 x 3.1		

Diversity supported
 Approximate range measures in line-of-sight
 3) Via external transceive

 Forcial multipoint firmware for 3 or 7 slaves available
 5) Encryption and Link level authentification on/off

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