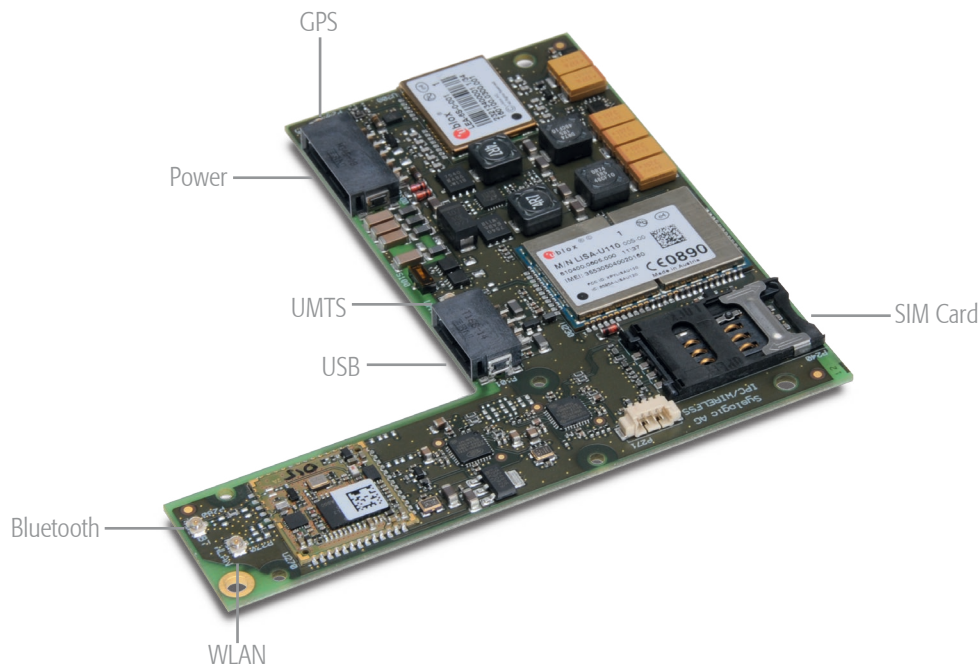


IPC/WLB Series

Industrial wireless board with WLAN, Bluetooth, GPS and GSM/UMTS



IPC/WLB-xxxx

The IPC/WLB Series brings wireless technology to the Syslogic embedded products.

According to the customers needs, WiFi, GPS, GSM/UMTS and Bluetooth can be individually combined to a one board solution. This offers a low power wireless extension at lowest cost.

- Extended temperature range
- 24/7 continuous operation
- Wireless LAN (WiFi)
- Bluetooth
- GPS
- UMTS/HSPA GSM/GPRS/EDGE

 Windows Embedded Standard 2009

 Windows Embedded Standard 7



Product Highlights

Low Power
Fan less design
Industrial design
Operating temperature -40°C to +85°C
Long term availability

Product Feature

WLAN IEEE802.11b, IEEE802.11g
Bluetooth IEEE802.15.1
GPS
GPS Galileo
Dual-band UMTS/HSPA
Quad-band GSM/GPRS/EDGE, class 12

Markets / Applications

Industrial automation
Railway industry
Transportation and vehicle construction
PLC replacement
Cleantech
Maritime

	Order Code	IPC/WLB-WBGU ¹	IPC/WLB-GU ¹	IPC/WLB-WB ¹	IPC/WLB-G ¹
WLAN (uBlox Ella-W163A)²					
WLAN Standards: IEEE 802.11a, b, g, n, i, e, j, h, s, h, d, k, r, w		•		•	
Data transfer rate: IEEE 802.11b: 11, 5.5, 2, 1 Mbps		•		•	
Data transfer rate: IEEE802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps		•		•	
Data transfer rate: IEEE 802.11n: max.150 Mbps (40 MHz channel)		•		•	
Frequency range: 2.4 - 2.497 GHz (ISM Band) and 4.900 – 5.830 GHz		•		•	
Protocols: Enables Ethernet NIC on host		•		•	
Security encryption: WEP 64/128 Bit-Key / WPA (TKIP, AES) / WPA2		•		•	
Antenna connector U.FL-R on board		•		•	
Bluetooth (uBlox Ella-W163A)²					
Bluetooth Standard: IEEE802.15.1		•		•	
Bluetooth 3.0+High Speed (HS)		•		•	
Bluetooth 2.1 and enhanced data rate (EDR) operation		•		•	
UART HCI protocol support		•		•	
Antenna connector U.FL-R on board		•		•	
GPS (uBlox LEA-6N)					
Positioning Standards GPS and GLONASS		•	•		•
Galileo ready ¹	optional		optional		optional
Receiver type: 50-channel engine		•	•		•
Hybrid GPS/SBAS engine (WAAS, EGNOS, MSAS)		•	•		•
Accuracy: GPS Position 2.5m CEP		•	•		•
Time to first fix: less than 40 sec		•	•		•
GPS aiding support		•	•		•
Antenna connector U.FL-R on board		•	•		•
UMTS (uBlox LISA-U200)					
UMTS/HSPA 800 / 850 / 900 / 1700 / 1900 / 2100 MHz		•	•		
UMTS/HSPA 5.76 Mb/s uplink, 21.1 Mb/s downlink		•	•		
GSM 850 / 900 / 1800 / 1900 MHz		•	•		
GPRS Class 12, CS1-CS4 - up to 85.6 kb/s		•	•		
EDGE Class 12, MCS1-MCS9 - up to 236.8 kb/s		•	•		
SMS MT/MO PDU / Text mode		•	•		
TCP/IP, UDP/IP (multiple sockets)		•	•		
Internet (FTP, HTTP)		•	•		
SSL		•	•		
Socket for mini SIM card		•	•		
Antenna connector U.FL-R on board		•	•		
Communication Interfaces					
USB 2.0 interface (to host computer)	1		1		1
Technical Data					
Dimensions W x D x H [mm]	100 x 110 x 7		100 x 110 x 7		100 x 110 x 7
Net weight [gram]	42		42		38
Input Voltage 5VDC non-isolated (over USB)	•		•		•
Power consumption typ. in Watt @ 5V	1.3		1.1		0.8
Software support					
Linux Kernel 2.3.x an higher		•	•		•
Windows Embedded Compact 7			•		•
Windows Embedded Standard 2009, Windows Embedded Standard 7			•		•
Environmental Conditions					
Operating temperature (ambient) -40°C to +85°C		•	•		•
Storage temperature -40°C to +85°C		•	•		•
Shock: designed to meet EN60068-2-27		•	•		•
Vibration: designed to meet EN60068-2-6		•	•		•
EMI Conformity EN-55022/55024/61000-6-2/61000-6-4		•	•		•
MTBF ~200 000h @ 25°C (22.8 years)		•	•		•

¹ Please contact factory for minimum order quantities

² Only Linux driver support (former lesswire WiBear11n)

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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