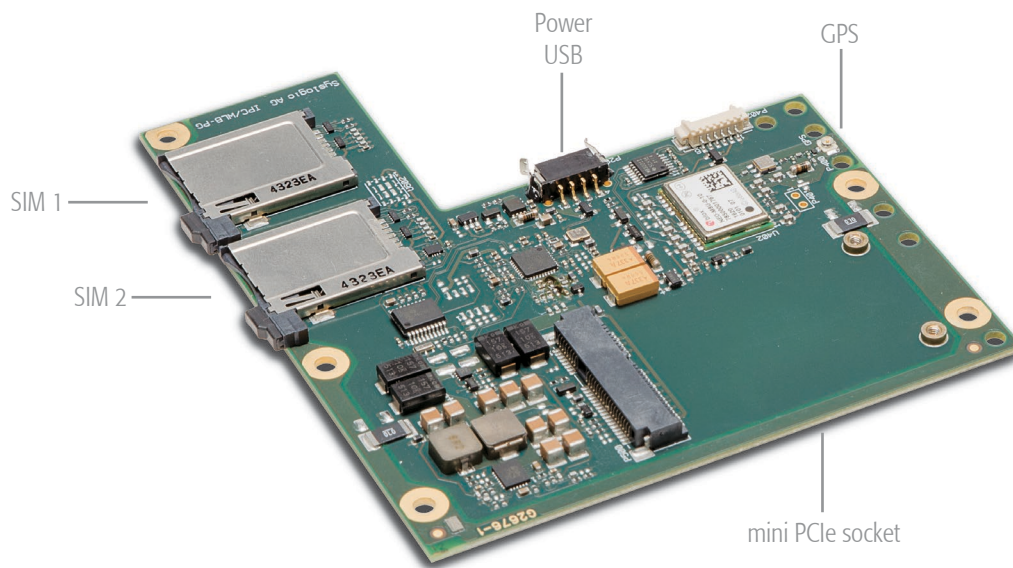


IPC/WLB-P Series

Industrial wireless board with GPS and dual SIM for cellular extension



IPC/WLB-P

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

According to the customers needs, GPS can be combined with cellular modules on miniPCIe form factor. Dual mini SIM and a eSIM allows the combination of different provider. Together this offers a flexible, low power wireless extension at lowest cost.

- Extended temperature range
- 24/7 continuous operation
- GPS
- Cellular up to LTE
- Dual mini SIM / eSIM

 Windows Embedded 8

 Windows 10



Product Highlights

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

Product Feature

GPS with Dead Reckoning (u-Blox Neo M8U)
GPS supporting GLONASS, BeiDou and Galileo
Mini PCIe Socket for LTE/GPRS/GSM modules
Two Micro SIM sockets with SIM controller

Markets / Applications

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

GPS (uBlox NEO-M8U)

Positioning Standards GPS, GLONASS, BeiDou and Galileo	•
Dead Reckoning	•
Receiver type: 72-channel engine (GPS L1C/A, SBAS L1C/A, QZSS L1C/A, QZSS L1-SAIF, GLONASS L1OF, BeiDou B1I, Galileo E1B/C)	•
Accuracy: GPS Position 2.0m CEP	•
Time to first fix (cold starts)	26 sec
Antenna connector U.FL-R on board	•
Active Antenna Supply 3.3V (20mA max)	•
Backup Battery Interface	•

PCI Express mini card (mPCIe)

PCI Express Mini Card (full size)	•
SIM and USB interface only	•
Approved WAN modules	uBlox MPCI-L2 series
Antenna connector U.FL-R on mPCIe board	•
Enable Airplane mode for mPCIe module	•

Communication Interfaces

USB 2.0 interface (to host computer)	1
mini SIM (with SIM controller)	2
eSIM Typ: MFF1 or MFF2	1
Detect SIM cards / Detect SIM lock	•

Technical Data

Dimensions W x D x H [mm]	100 x 110 x 7
Net weight [gram]	42
Input Voltage 5VDC non-isolated (over USB)	•
Power consumption typ. in Watt @ 5V ²	1.3

Software support

Linux Kernel 2.3.x an higher	•
Windows Embedded Standard 7 & 8	•
Windows 10 IoT	•

Environmental Conditions

Operating temperature (ambient) -40°C to +85°C	•
Storage temperature -40°C to +85°C	•
Conformal coating (not possible for uBlox MPCI-L2 mPCIe module)	optional
Shock: designed to meet EN60068-2-27	•
Vibration: designed to meet EN60068-2-6	•
EMI Conformity EN55022/55024/61000-6-2/61000-6-4	•
MTBF ~ 200 000h @ 25°C (22.8 years)	•

¹ Please contact factory for minimum order quantities² depending on mPCIe modules and active connections

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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Version 1.0 | September 2016

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