

LB-100AN Linux Box with 802.11 a/b/g/n Support for Custom Application Development



Quick Time to Market with Silex's SDK and MP-Ready Hardware

The LB-100AN is a box product with Linux OS for embedded applications, which supports wired and wireless LANs. Silex's proven hardware supporting a dual band wireless LAN and development kit including a wireless LAN driver enable customers to embed their services and applications by themselves to their products. It minimizes their initial hardware development investment and driver development costs, and allows them to devote themselves to their application development and reduce time to market.



Top Features

- Minimum initial development investment
- Simple wireless LAN connectivity
- Customization available

Features:

1 Mass Production Availability

The LB-100AN is not only a box product for evaluation. It allows customers to move on to a mass production phase without tweaking their developed application firmware. We can manufacture customers finished products under manufacturing agreement. We can also help in embedding boards to their end products.

2 Wireless LAN Support

LB-100AN includes our standard WLAN module, and therefore customers have access to the following:

- SX-PCEAN2c and wireless LAN driver library
- Access Point and Station Functions
- WEP/TKIP/AES Encryption
- Enterprise Authentication

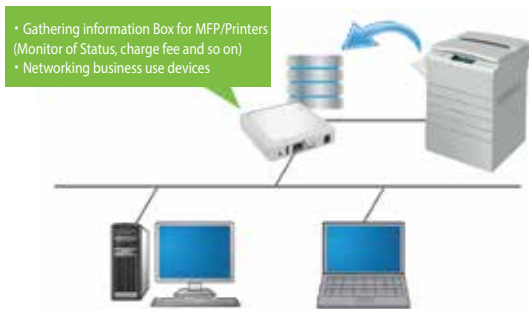
3 Bluetooth Capability

The LB-100AN features enable the user simply to build required wireless LAN applications. The USB port is able to support Bluetooth, 3G and LTE. By connecting an off-the-self Bluetooth dongle to the USB port, the LB-100AN makes associations with Bluetooth Sensor Tag; and moreover it can be used as a cloud gateway by adding cloud service applications with a 3G or LTE modem.

Note: For tested Bluetooth dongles or cloud services, please refer to the silex website.

Use Cases:

1 Device Networking and Function Extension



2 Advanced Gateway for Information Collection



3 Networked Remote Monitoring Solution



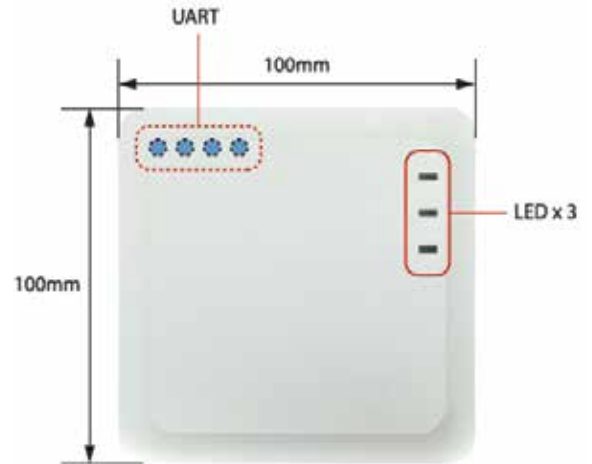
Product Specification

Model	LB-100AN	
CPU	Marvell Armada 370 88F6W11 CPU Clock=800MHz	
Memory	ROM	SPI Flash ROM 32Mbyte
	RAM	DDR3 1066 Memory 128Mbyte
	MMC	eMMC 4Gbyte (MLC 1)
Wired LAN		
Interface	RJ-45 x 1	
Standard	10BASE-T/100BASE-TX/1000BASE-T	
Wireless LAN		
Standard	IEEE 802.11 a/b/g/n 2Tx2R	
Antenna	Unictron Internal PCB Antenna	
Other Specifications		
Device IF	USB	USB2.0 Hi-Speed (Type-A) x 1
	Serial	RS-232C x 2
Push Button	1	
LED	LED 1 ~ 3	: Red / Green
	Link LED (RJ-45)	: Green
	Status LED (RJ-45)	: Orange
Dimensions	W:100mm x D:100mm x H:25.5mm	
Weight	118g	
Environmental Specifications	Storage Temperature: -10 to 50°C	
	Humidity: 20 to 90%RH (non-condensing)	
Regulatory Compliance	Operating Temperature: 0 to 40°C	
	Humidity: 20 to 80%RH (non-condensing)	
Regulatory Compliance	VCCI Class B, FCC Class B, ICES-003 Class B, CE Class B, Rohs Directives	
Accessories	Body, AC adapter, GPL inquiry sheet, CE declaration of conformity, Case removal manual	

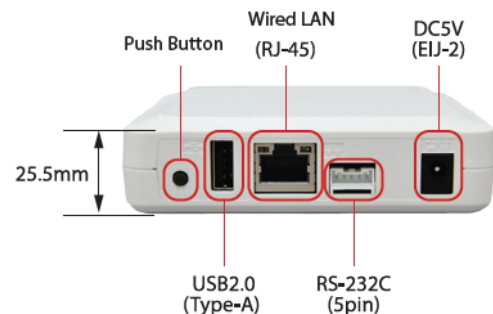
*1: The configuration enables MLC to change to pseudo SLC (2 Gbytes)

External Appearance

● Top



● Interface (Side)



Price

Product	Details	Price
LB-100AN	LB-100AN (Linux Box) Development Hardware	\$199
RS-232C Serial Cable (Optional)	5pin - DSUB 9pin Conversion cable (length: 1.5m)	\$20

Software Development Kit (SDK)

Product	Details	Price
LB-100AN-SDK	Software Development Kit Development Environment	\$99

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