

Programmable IoT Gateway with LTE GW-100AN



Ideal Platform to take your Gateway Application to Mass Production

• Overview

GW-100AN is Silex's programmable platform with dual band wireless radio, that allows you to develop your own applications in Linux by using our SDK (Software Development Kit). Additionally, it supports internal cellular modem and secure M2M (machine to machine) remote access VPN gateway function. This is an ideal development platform to build custom IoT gateways quickly for your industrial machines. It minimizes the initial hardware development investment and driver development costs thus reducing your time to market.

Key Features

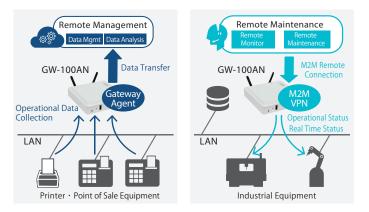
1 Mass Production Ready

Customers can focus their resources on building applications. Silex offers services to integrate those applications and take your product from proof of concept to mass production. We can build and support your product exactly how you need it.



2 M2M VPN Functions and Service Support

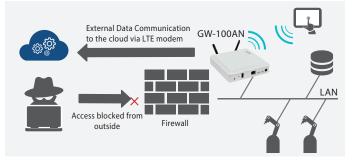
Supports MQTT protocol which is ideal for IoT devices and services to exchange data. The "Cloud Gateway Function*" can be used to visualize data using the cloud. The "M2M Remote Connection Function" enables remote maintenance to increase operational efficiency.



* Compatible with Kii Corporation's IoT Platform and Asset Monitoring Solution. Status monitoring, failure detection and repair request for various devices in the Cloud App can be built quickly.

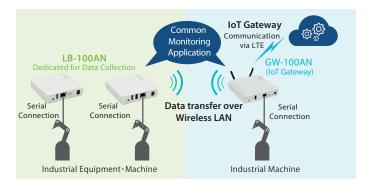
Secure IoT Cloud Gateway Support

By using the built-in LTE modem, GW-100AN can be used for remote data collection and monitoring. The firewall installed in the built-in module blocks packets from outside (on WAN side), making the internet connection secure.



4 Development Environment Compatible with LB-100AN

The GW-100AN architecture is based on the LB-100AN design, which adds on internal cellular modem for LTE communication. What this means is that applications built on the development platform can be shared back and forth easily between the LB-100AN and GW-100AN resulting in cost savings and faster time to market.



Programmable IoT Gateway with LTE

GW-100AN

Product Specification

i i o u u cr o	Product Specification				
Product Name		GW-100AN (WLAN + LTE) GW-100 (LTE Only)			
СРИ		Marvel (SoC) Armada 370 88F6W11 CPU Clock=800MHz			
	ROM	SPI Flash ROM 32Mbyte			
Memory	RAM	DDR3 1066 Memory 512Mbyte			
	ММС	eMMC 2Gbyte (Pseudo SLC)			
Wired LAN					
Interface		RJ-45 x 1 (Ethernet)			
Ethernet Specification		10BASE-T/100BASE-TX/1000BASE-T (auto-recognition)			
Wireless LAN					
Wi-Fi Specification		IEEE 802.11 a/b/g/n 2Tx2R Not Applicable			
Antenna		Built-in Dual Band (2.4GHz/5GHz) (Wired Only)			
LTE Modem					
Specification		LTE Cat.1 * 1 (Gemalto ELS31-J)			
SIM Card Type		Micro SIM Card			
Antenna		External x 2			
Device Interfa	aces				
USB		USB: x1 (USB2.0 Hi-Speed Type-A)			
Serial		Serial: x2 (RS-232C: external 5pin, UART: 4pin for internal debugging)			
Other Interfac	Other Interfaces				
Switch		Push Button Switch: x1			
LED		Body (Case Top) x 4 Link LED and Status LED (RJ45 x 2)			
Additional Details					
Operating Environment		Temperature : 0 to + 40 °C Humidity : 20 to 80% RH (no condensation)			
Storage Environment		Temperature : -10 to + 50 °C Humidity : 20 to 90% RH (no condensation)			
Power Supply		AC 100-240V (operating voltage: 12V) ; DC24V			
Max. Power Con	sumption	9.6W (DC12V, 0.8A) 8.4W (DC12V, 0.7A)			
Dimension		W:130mm x D:130mm x H:32mm			
Weight		270g 260g			
Configuration Method		WEB Browser			
Compliance Standards VCCI Class B, RoHS Directive		VCCI Class B, RoHS Directive			
Included Items		Main Unit, LTE Antenna, AC Adapter, Setup Guide, GPL statement, Warranty Card.			

· Band1(2G), Band19(800MHz) Support

service are sold separately.

The maximum transmission speed of LTE Cat.1 is 5Mbps upstream and 10Mbps downstream. • A micro SIM card compatible with NTT Docomo's LTE (Xi ©) and MVNO using NTT DoCoMo LTE network can be used. Micro SIM card and mobile communication

SKU's						
Model	Deliverable	Details	Price			
GW-100AN	Main Unit	Main hardware platform x 1	Contact Sales			
	Development Kit	Development kit sold seprately (DVD)	Contact Sales			
GW-100	Main Unit	Main hardware platform x 1	Contact Sales			
	Development Kit	Development kit sold seprately (DVD)	Contact Sales			

Development kit is required for customers to develop and incorporate Linux applications into the
product. The deliverable is provided on a DVD separately and includes the development environment
including toolchain, libraries and documentation. The virtual environment is Debian 7.1 (32bit).

Mechanical Drawing

• Top View • Side View UTE Antenna UTE Antenna

Interfaces / Ports



Serial & DC24V Power Supply Connector Specification

 External RS-232C Connector Model : JST S05B-PASK-2
 Pin Assignment : 1.TXD, 2.RTS, 3.RXD 4.CTS, 5.GND

• DC 24V Power Connector Model : JST S03B-PASK-2 Pin Assignment : 1.NC, 2.GND, 3.VCC

When using DC24V power supply, a separate cable needs to be prepared per the above specifications.

Accessories (Sold Separately)

ltem	Description	Price
RS-232C Serial Cable	5pin – DSUB 9pin (Conversion Cable) (Cable Length 1.5m)	Contact Sales

Other Similar Products

Linux Box for Custom Applications LB-100AN (IoT Gateway)

Silex hardware with Linux OS for embedded applications supports both wired and wireless LANs. Silex's proven hardware supporting a dual band wireless LAN and development kit includes a wireless LAN driver enabling customers to embed their services and applications by in to their products



- 32Mbyte ROM / 4Gbyte eMMC built-in storage (MLC)
- RJ-45 x1: 10BASE-T, 100BASE-TX, 1000BASE-TX (auto recognition)
- IEEE 802.11a / b / g / n (2.4GHz / 5GHz)

Hardware Compatibility with Wireless Bridge BR-300AN

BR-300AN is a wireless bridge device which can easily convert a 10/100/1000BASE-T wired LAN device to a wireless LAN device. It supports a wireless LAN communication in the 2.4GHz and 5GHz bands and enables a wired LAN device to join in a wireless LAN environment easily.

- 10BASE-T, 100BASE-TX, 1000BASE-T (auto recognition)
- IEEE 802.11a/b/g/n (2.4GHz / 5GHz)
- Supports two types of operation modes, single client mode, multi-client mode
 WEP, WPA, WPA2, IEEE 802.1X EAP authentication for enterprise security
- Easy configuration via LAN cable.

Any questions about the product? Contact our customer support team!

https://www.silextechnology.com/support/contact-silex-support

Other products or brand names may be registered trademarks of their respective owners. Technical information and specications are subject to change without notice. © 2019 silex technology, Inc. All rights reserved.

silex technology

silex global sales & support locations

US Office silex technology america, Inc. +1-657-218-5199 www.silextechnology.com sales@silexamerica.com

Europe Office silex technology europe, GmbH +49-2154-88967-0

Germany toll free 0800-7453938 www.silextechnology.com contact@silexeurope.com China silex technology beijing, Inc. +86-10-8497-1430 www.silex.com.cn contact@silex.com.cn Corporate Headquarters silex technology, Inc. +81-774-98-3781 www.silex.jp support@silex.jp



