

SD-330AC-1402

Wireless/Wired Serial Device Server / Ethernet to Wi-Fi Bridge (FIPS 140-2 Certified & TAA Compliant)



Connect Serial & Ethernet Devices to your Wi-Fi network with NIST approved security

The Silex SD-330AC-1402 is a FIPS 140-2 certified wireless / wired LAN Serial Device Server as well as an Ethernet to Wi-Fi Bridge which securely connects devices equipped with the RS-232C serial interfaces and/or the Ethernet into any network eliminating the need for wired connection between the devices and the computers. Medical devices, printers, scanners or virtually any other device with a serial port or an Ethernet port can now be enabled with secure and robust LAN network capability.

Security

- FIPS 140-2 cryptographic operation**

SD-330AC-1402 enables medical devices, printers, scanners or virtually any other device with a serial port or an Ethernet port to secure the transport of personal confidential data and ensure the integrity of electronic data over a Wi-Fi wireless network as per FIPS 140-2 requirements.

In FIPS 140-2 mode, FIPS 140-2 certified WLAN authentication WPA2-PSK can be used, and WLAN communication is encrypted by AES CCMP. When customers use applications such as TCP port serial services, eCable client service and so on, the end-to-end application security is established by TLS encryption.

- Wi-Fi connection security by WPA2-PSK AES CCMP encryption.
- Secure firmware update over HTTPS
- Firmware signature check
- Secure connection to unit web GUI over HTTPS
- TCP port serial services in TLS encrypted mode
- eCable client service in TLS encrypted mode

- Secure wireless LAN environment**

Only authentication / encryption methods using the algorithm approved by FIPS 140-2 are available in FIPS mode.

SD-330AC-1402 supports various Wi-Fi security features in non-FIPS mode.

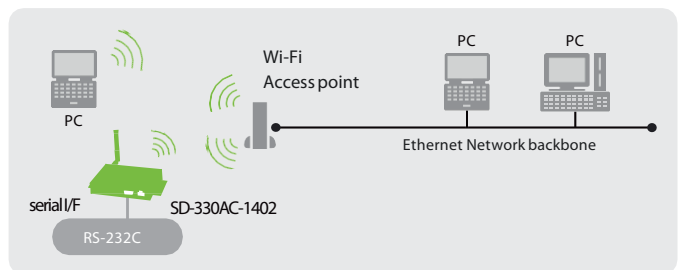
- Open (128bit)
- WPA-PSK (AUTO)
- WPA2-PSK (AES)
- WPA2-Enterprise (AES) *only in non-FIPS mode operation
 - EAP-TLS
 - PEAP-GTC

Connectivity

- Serial device server over Wireless/Wired LAN**

- Infrastructure mode:**

If there is an existing wireless LAN environment, the SD-330AC-1402 can be used as a wireless station.



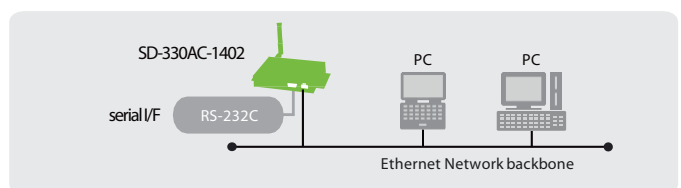
- AP mode:**

The SD-330AC-1402 is equipped with access point mode.



- Wired LAN:**

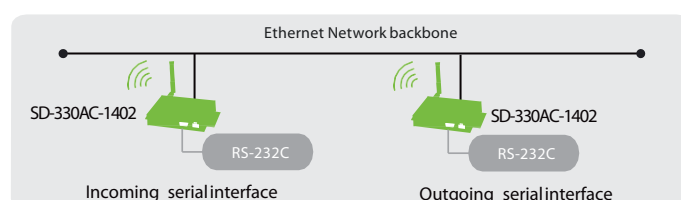
The SD-330AC-1402 supports 10Base-T / 100Base-TX automatic recognition function.



- eCable mode:**

The serial devices communicate with each other by using two SD-330AC-1402s. One SD-330AC-1402 acts as receiver and the other acts as transmitter with serial devices connected to them at each end.

The eCable mode client service operates in TLS encrypted mode when FIPS 140-2 mode is enabled.



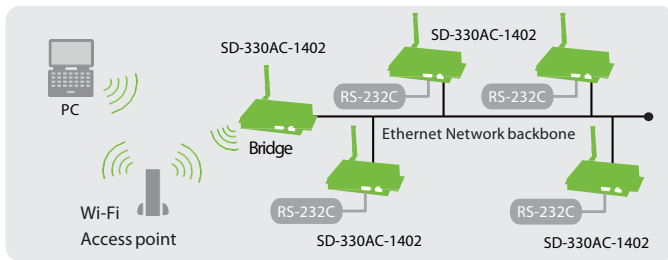
Ethernet – Wi-Fi Wireless bridge mode

Single client mode:

The single client bridge mode of the SD-330AC-1402 allows users to access to a single Ethernet device through the wireless network. The SD-330AC-1402 terminates the wireless connection when the Ethernet device is replaced by another device during the operation.

Multi-client mode:

The multi-client bridge mode of the SD-330AC-1402 allows users to access to multiple Ethernet / serial devices through the Wi-Fi wireless network.



Application

Medical Equipment



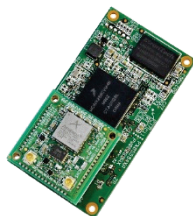
Office Equipment in Government facilities

Embedded Option

Small Intelligent Module

SX-590-1402

- Embedded module in SD-330AC-1402
- Single stream, 1 x 1
- UART, Ethernet (10/100)
- Offload wireless LAN driver, security supplicant, TCP / IP communication processing



Specifications

Product Name	SD-330AC-1402
Wired LAN	IEEE802.11a/b/g/n/ac
Wireless Standard	10Base-T/100Base-TX
Security	FIPS mode WPA2-PSK (AES) Non-FIPS mode Open (128bit) / WPA-PSK (AUTO) / WPA2-PSK (AES) / WPA2-Enterprise (EAP-TLS/PEAP-GTC)
Device Interface	RS-232C, RS-422 (Option), & RJ-45
Supported Protocol	TCP / IP
Configuration Methods	Web browser utility / Console
Dimension	126mm X 75mm X 24mm (SD-330AC-1402 body only, excluding protrusions)
Weight	305g (SD-330AC-1402 body only, including antennas)
Environmental Condition	Operating Temperature: 0 to +50°C Humidity: 20 ~ 80% RH Storage Temperature: -20 to 70°C Humidity: 20 ~ 90% RH
Power Consumption	2.5W (DC5V/0.5A) DC Jack (EIAJ Class2) or DB-9 Pin9
Regulatory Compliance	FCC Class B, ICES-003 Class B, RoHS
Included Items	SD-330AC-1402 Body, AC adapter, setup guide, rubber feet, wireless LAN antenna GPL inquiry sheet, warranty card
Supported Software	SX-Finder
Supported OS	Windows 7, Windows 8, Windows 10, Windows server 2003/2008 <i>Note: RAW TCP mode and eCable mode are not OS dependent</i>

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silex global sales & support locations



US Office
silex technology america, Inc.
US toll free 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
sales@silexeurope.com

India Office
silex technology india, Pvt. Ltd.
+91-44-4303234
www.silex-india.com
support@silex-india.com

Corporate Headquarters silex
silex technology, Inc.
+81-774-98-3781
www.silex.jp
support@silex.jp