SD-300 / SD-310AN
Wired / Wireless Serial Device Server

High Performance Ethernet or Dual Band Wi-Fi Serial Device Connectivity

The Silex SD-300 and SD-310AN are designed to easily connect and share RS-232 serial devices over a wired or wireless network. Industrial automation, building automation, medical devices, security access and control, point of sale devices, LED signs, bar code/label and other specialty printers, or virtually any other device with a serial port can be now be enabled with secure, robust wired or wireless network capability. It allows flexibility to place the device anywhere on the network instead of needing to be attached directly to the computer, and multiple computers or terminals can access the serial device.
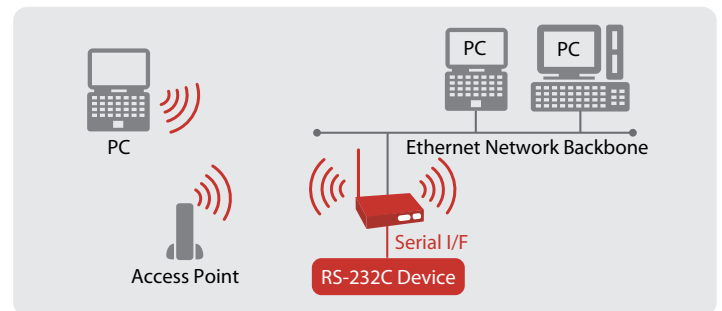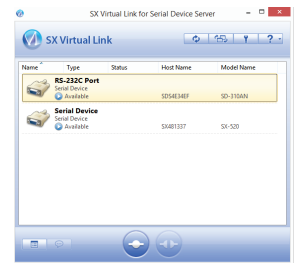
Key Features and Benefits:

- **Industry-leading security** including WPA, WPA2, and WEP, plus 802.1x authentication with the most commonly used EAP types

- **Dual band IEEE 802.11a/b/g/n support** on the SD-310AN allows communication in the 2.4 GHz and 5 GHz bands. Radio interference in the commonly used 2.4 GHz band can be avoided by utilizing 5 GHz.

- **Virtually any client device can remotely control and monitor your serial devices** including computers (Windows, Mac, Linux), mobile devices (Android, iOS), and virtual servers (VMware, Citrix, Microsoft Terminal Server and Hyper-V).

- **No special drivers or applications are needed** to use the serial devices: Drivers and applications that worked when the serial device is directly connected to the computer will continue to work across the network connected to the SD-300/SD-310AN.

- **SD-310AN provides optimized roaming** based on a signal strength algorithm between wireless access points ensuring maximum uptime for the connection.
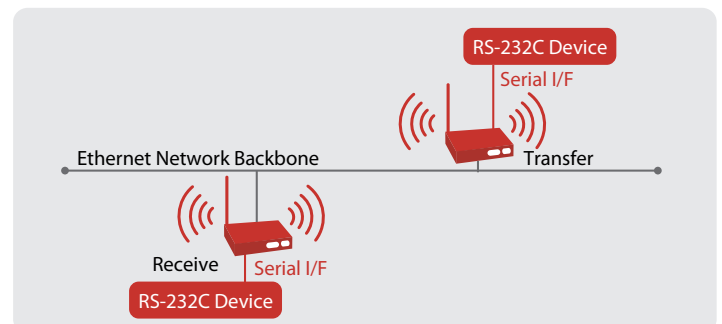
- **Multiple serial port and wireless modes** for maximum flexibility for any environment

Serial Port Modes

- **Serial Port Emulation Mode:** The included Silex SX-Virtual Link software precisely emulates a serial port (or COM port) connection on a computer operating system, and then redirects the packets over the network to the serial port of the SD-300/SD-310AN.

- **Raw TCP Connection Mode:** This mode makes it possible to possible to directly communicate with a serial device via TCP application program using a TCP socket API.

- **eCable Mode:** Serial data can be tunneled over the network between devices connected to SD-300/SD-310AN.
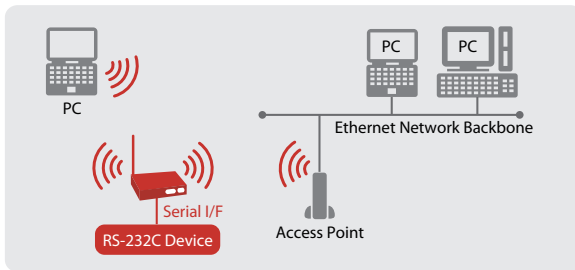
Wireless Modes

– **Wired Mode:** The SD-300 and SD-310AN are equipped with an autosensing 10/100 Ethernet port. SD-300 is wired only. SD-310AN can also operate in wired mode to connect to the Ethernet network.

– **Wireless Station (Client) Mode:** The SD-310AN can connect to an existing 802.11a/b/g/n Wi-Fi network. The dual band capability and enterprise security ensure a stable connection to even the most advanced wireless networks.

– **Wireless Access Point Mode:** The SD-310AN can create a wireless network so any wireless client (station) can easily make a direct secure connection.

OEM Embedded Modules

• OEM circuit boards for integration of wired or wireless connectivity are also available. Please contact us for details.

Specifications:

Product Name	SD-300	SD-310AN
Wired LAN	10/100	
Wireless Standard		IEEE802.11a/b/g/n
Security *Note: WEP and 802.1x are only available in wireless station (client) mode*		WEP (128 bits), WPA-PSK (AUTO) WPA2-PSK (AES), IEEE 802.1X (LEAP, PEAP, TTLS, TLS, EAP-FAST)
Device Interface	RS-232C	
Supported OS (SX-Virtual Link Serial Port Emulator) *Note: RAW TCP mode and eCable mode are not OS dependent*	Windows 8 / 8.1 (32/64-bit), 7 (32/64-bit), Vista (32/64-bit), XP (32/64-bit), 2000, Windows Server 2012/2008/2003 (32/64-bit)	
Supported Protocols	TCP/IP	
Setting Method	Configuration utility, Web browser, TELNET	
External Dimensions	W: 125.7mm × D: 75.1mm × H: 24.1mm (body only, excluding protrusions)	
Weight	290g (body only)	305g (body only, including antenna)
Environmental Conditions	Storage: • Temperature: -20 ~ + 70°C • Humidity: 20 ~ 90% RH Operating: • Temperature: 0 ~ + 50°C • Humidity: 20% ~ 80% RH (non-condensing)	
Maximum Power Consumption	2.25W (DC5V/0.45A)	2.5W (DC5V/0.5A)
Regulatory Compliance	VCCI Class B, FCC Class B, ICES-003 Class B, CE Class B	
Other	SX Virtual Link for Serial Device Server version 3.8.0 or later	
Included Items	Body, AC adapter, setup guide, rubber feet, wireless LAN antenna (SD-310AN only), GPL inquiry sheet, warranty card	

About Silex Technology America, Inc.

Silex Technology builds on more than 40 years of hardware and software connectivity know-how and IP, custom design development experience, and in-house manufacturing capabilities, bringing value to customers with a foundation of technical expertise. With relentless attention to quality, exclusive access to Qualcomm Atheros expertise, and strategic partnerships with leading semiconductor providers, Silex Technology is the global leader in reliable Wi-Fi connectivity for products ranging from a medical device to a document imaging product to a video or digital display. With Silex Technology, customers get a single vendor that provides hardware and software support from design through manufacturing for successful product after successful product. For more information, please visit www.silexamerica.com.

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