

# SX-SDCAG 802.11a/b/g SDIO Card Module



## Ultracompact Wireless Solution for Embedded Applications

The Silex SX-SDCAG 802.11a/b/g wireless module is designed for OEMs who need a highly compact wireless radio/baseband solution with very low power consumption. This SDIO card contains MAC & baseband processors to offload processing from the main CPU and enables wireless connection even on a low processing power design. SX-SDCAG's diversity antenna option gives you better and wider wireless coverage than any other 802.11a/b/g SDIO cards.

SX-SDCAG is ideal for low power / battery operated devices like portable medical devices, barcode scanners, RFID readers, mobile printers, and many more.

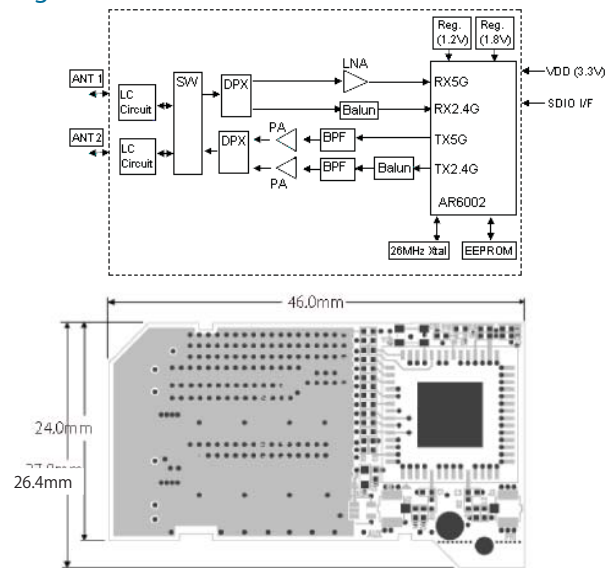
The SX-SDCAG is designed to be directly inserted to a SD card slot on OEM's PCB to minimize size and cost.\* It features an industry-standard SDIO interface, and is pre-tuned for ease of design and manufacturing. In order to expedite your product development process, Silex can also provide both hardware and software engineering services, as well as turnkey product design and manufacturing.

### Key Features:

- Highly Integrated System for 802.11a/b/g WLAN
- Integrated Atheros AR6002 Single Chip design
- Very low power consumption (49.5mW standby; 825mW transmit / 495mW receive@5GHz typical; 825mW transmit / 495mW receive @2.4GHz typical)
- Advanced power management to minimize standby and active power
- Built-In EEPROM for storage of MAC address and other parameters
- WEP 64/128, WPA (TKIP), WPA2 security
- Driver development/porting and hardware design services are available from Silex. Please consult with our sales representative for further information.

\*It may not fit into some card slots.

### Diagrams



### Specifications:

Product Name	SX-SDCAG
Chipset	Atheros Communications AR6002
Electrical Interface	SDIO V 1.1 (4-bit, 1-bit)
Operating Voltage	3.30 VDC +/- 5%
Radio Specifications	802.11b/g 2.412 - 2.484 GHz 802.11a 5.15 - 5.825 GHz
Radio Tx Power (Typical)	802.11b/g - 14dBm, 802.11a - 11dBm
Baseband Specifications	CSMA/CA media access; DSSS, OFDM
Operating Temperature	-20 to +70 degrees C**
Dimensions	26.4 x 46.0 x 4.1 mm

\*\* Performance may vary across the temperature range and frequency depending on the implementation

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## silex global sales & support locations



**US Office**  
silex technology america, Inc.  
+1-801-748-1199  
US toll free 866-765-8761  
www.silexamerica.com  
sales@silexamerica.com

**Europe Office**  
silex technology europe, GmbH  
+49-2151-65009-0  
www.silexeurope.com  
contact@silexeurope.com

**China Office**  
silex technology beijing, Inc.  
+86-10-6440-3958  
www.silex.com.cn  
contact@silex.com.cn

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

PN: 141-00197-100B  
20110207