



SDC-PC10G 802.11g PCMCIA Module with Antenna Connectors

The SDC-PC10G provides all key Summit [hardware](#) and [software](#) capabilities in the time-tested PCMCIA (PC Card) form factor. As a result, the SDC-PC10G is ideal for integration into legacy application specific devices like portable data terminals, portable printers and medical devices.

Please review the below data sheet for complete device specifications. A product brief in PDF format that includes key hardware and software capabilities and device specifications

may also be [downloaded](#).

SDC-PC10G Specifications



System Interface	16-bit PCMCIA Type II with 68-pin connector
Antenna Interface	Two U.FL (Hirose) connectors for antenna diversity
Chipset	Broadcom BCM4318E
Input Power Requirements	3.3 VDC +/- 5%
Typical Power Consumption (at maximum transmit power setting)	Transmit: 400 mA (1320mW) Receive: 180 mA (594mW) Standby: 10 mA (33 mW)
Operating Temperature	-22° to 167°F (-30° to 75°C)
Operating Humidity	10 to 90% (non-condensing)
Length	3.3" (85.6 mm)
Width	2.13" (54 mm)
Thickness	0.2" (5 mm)
Weight (approximate)	1.0 oz (30g)
Mounting	68 pin connector
Network Standards	IEEE 802.11b, 802.11g, 802.11i
Network Architecture Types	Infrastructure and ad hoc
Frequency Band	2.4 to 2.4897 GHz
Wireless Media	Direct Sequence-Spread Spectrum (DSSS)

	Orthogonal Frequency Divisional Multiplexing (OFDM)
Media Access Protocol	Carrier sense multiple access with collision avoidance (CSMA/CA)
Data Rates Supported	802.11b (DSSS): 1, 2, 5.5, 11 Mbps 802.11g (OFDM): 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Modulation	1, 6, 9 Mbps: BPSK 2, 12, 18 Mbps: QPSK 5.5, 11 Mbps: CCK 24, 36 Mbps: 16-QAM 48, 54 Mbps: 64-QAM
Regulatory Domain Support	FCC (Americas, Parts of Asia and Middle East) ETSI (Europe, Middle East, Africa and Parts of Asia) TELEC (Japan)
Operating Channels	FCC: 11 ETSI: 13 TELEC: 14
Non-overlapping Channels	Three
Transmit Power Settings	DSSS: 19 dBm (80 mW) 17 dBm (50 mW) 15 dBm (30 mW) 10 dBm (10 mW) 0 dBm (1 mW) OFDM: 15 dBm (30 mW) 10 dBm (10 mW) 0 dBm (1 mW)
Typical Receiver Sensitivity	1 Mbps: -96 dBm 2 Mbps: -95 dBm

Maximum transmit power will vary according to individual country regulations. All values nominal, +/-1.5dBm

	<p>5.5 Mbps: -94 dBm</p> <p>6 Mbps: -94 dBm</p> <p>9 Mbps: -91 dBm</p> <p>11 Mbps: -90 dBm</p> <p>12 Mbps: -88 dBm</p> <p>18 Mbps: -86 dBm</p> <p>24 Mbps: -83 dBm</p> <p>36 Mbps: -78 dBm</p> <p>48 Mbps: -76 dBm</p> <p>54 Mbps: -75 dBm</p>
Delay Spread	<p>1 Mbps: 600 ns</p> <p>2 Mbps: 500 ns</p> <p>5.5 Mbps: 400 ns</p> <p>6 Mbps: 400 ns</p> <p>9 Mbps: 400 ns</p> <p>11 Mbps: 200 ns</p> <p>12 Mbps: 350 ns</p> <p>18 Mbps: 350 ns</p> <p>24 Mbps: 250 ns</p> <p>36 Mbps: 250 ns</p> <p>48 Mbps: 150 ns</p> <p>54 Mbps: 150 ns</p>
Operating Systems Supported	<p>Windows Mobile 6.0</p> <p>Windows Mobile 5.0</p> <p>Windows CE 5.0</p> <p>Windows Mobile 2003</p> <p>Windows CE 4.2</p>

	<p>Windows 2000, XP and XP Embedded (Q2 2007)</p> <p>For other operating systems including Linux, please contact Summit</p>
<p>Security</p>	<p>Standards</p> <p>Wireless Equivalent Privacy (WEP)</p> <p>Wi-Fi Protected Access (WPA)</p> <p>IEEE 802.11i (WPA2)</p> <p>Encryption</p> <p>Wireless Equivalent Privacy (WEP, RC4 Algorithm)</p> <p>Temporal Key Integrity Protocol (TKIP, RC4 Algorithm)</p> <p>Advanced Encryption Standard (AES, Rijndael Algorithm)</p> <p>Encryption Key Provisioning</p> <p>Static (40 and 128 bit lengths)</p> <p>Pre-Shared (PSK)</p> <p>Dynamic</p> <p>802.1X Extensible Authentication Protocol Types</p> <p>EAP-FAST</p> <p>EAP-TLS</p> <p>PEAP-GTC</p> <p>PEAP-MSCHAPv2</p>

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Compliance	<p>ETSI Regulatory Domain</p> <p>EN 300 328</p> <p>EN 301 489</p> <p>EN 60590</p> <p>EN 50371</p> <p>EU 2002/95/EC (RoHS)</p> <p>FCC Regulatory Domain</p> <p>FCC Subpart B, Class B</p> <p>FCC Subpart C Part 15.247, 15.207</p> <p>ANSI C63.4-2003</p> <p>Industry Canada RSS-210</p> <p>TELEC Regulatory Domain</p> <p>RCR STD - 33</p> <p>ARIB STD - T66</p> <p>ARIB STD T71</p>
Certifications	 <p>Wi-Fi Alliance</p>  <p>802.11b, 802.11g</p> <p>WPA Enterprise</p> <p>WPA2 Enterprise</p> <p>Cisco Compatible Extensions (CCX)</p> <p>Version 3</p>
Warranty	<u>Limited Lifetime</u>
<i>All specifications are subject to change without notice</i>	

