

Product Specifications

SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors



The SDC-CF10G provides all key Summit [hardware](#) and [software](#) capabilities in the increasingly popular Compact Flash form factor. As a result, the SDC-CF10G is ideal for integration into the current generation of 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-CF10G Specifications

System Interface	16-bit Compact Flash Type I with 50-pin connector <i>Note: This card is not designed for operation in the CF slot on standard laptop and desktop PCs. For these devices, Summit suggests using the SDC-PC20G in the PC Card (PCMCIA) or CardBus slot found on most laptops and desktops.</i>
Antenna Interface	Two Hirose U.FL 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	2.15" (54.5 mm)
Width	1.69" (43 mm)
Thickness	0.13" (3.3 mm)
Weight	0.5 oz (15g)
Mounting	50 pin connector

	Through Hole (non-metallic screw recommended)
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) TELECOM (Japan)
Operating Channels	FCC: 11 ETSI: 13 TELECOM: 14
Non-overlapping Channels	Three

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>

Security

Standards

Wireless Equivalent Privacy (WEP)

Wi-Fi Protected Access (WPA)

IEEE 802.11i (WPA2)

Encryption

Wireless Equivalent Privacy (WEP, RC4 Algorithm)

Temporal Key Integrity Protocol (TKIP, RC4 Algorithm)

Advanced Encryption Standard (AES, Rijndael Algorithm)

Encryption Key Provisioning

Static (40 and 128 bit lengths)

Pre-Shared (PSK)

Dynamic

802.1X Extensible Authentication Protocol Types



EAP-FAST

EAP-TLS

PEAP-GTC

PEAP-MSCHAPv2

LEAP

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	<p><u>Limited Lifetime</u></p>
<p><i>All specifications are subject to change without notice</i></p>	