

SDC-CF20G 802.11g Compact Flash Card with Integrated Antenna



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-CF20G 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	0 dBi Gain Diversity Omnidirectional
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	2.87" (72.8 mm)
Width	1.69" (43 mm)
Thickness	Card Body: 0.13" (3.3 mm) Antenna: 0.29" (7.3 mm)
Weight	0.7 oz (21g)
Mounting	50 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)

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

Typical Receiver Sensitivity	1 Mbps: -96 dBm
	2 Mbps: -95 dBm
	5.5 Mbps: -94 dBm
	6 Mbps: -94 dBm
	9 Mbps: -91 dBm
	11 Mbps: -90 dBm
	12 Mbps: -88 dBm
	18 Mbps: -86 dBm
	24 Mbps: -83 dBm
	36 Mbps: -78 dBm
	48 Mbps: -76 dBm
	54 Mbps: -75 dBm
Delay Spread	1 Mbps: 600 ns
	2 Mbps: 500 ns
	5.5 Mbps: 400 ns
	6 Mbps: 400 ns
	9 Mbps: 400 ns
	11 Mbps: 200 ns
	12 Mbps: 350 ns
	18 Mbps: 350 ns
	24 Mbps: 250 ns
	36 Mbps: 250 ns
	48 Mbps: 150 ns
	54 Mbps: 150 ns

Operating Systems Supported

Windows Mobile 6.0

Windows Mobile 5.0

Windows CE 5.0

Windows Mobile 2003

Windows CE 4.2

Windows 2000, XP and XP Embedded (Q2 2007)

For other operating systems including Linux, please contact Summit

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>	