



11Mbps Wireless LAN CompactFlash Card

The DCF-650W is a IEEE 802.11b compliant Wireless CompactFlash Type II card . It provides a solution to connect PDAs (Personal Digital Assistants) such as the Compaq iPAQ and Casio 125 to an IEEE 802.11b wireless network. The DCF-650W operates in the 2.4GHz frequency range and utilizes Direct Sequence Spread Spectrum (DSSS). The DCF-650W is targeted at users with PDAs who want the convenience offered by connecting without wires to a local area network.

The DCF-650W operates in either Ad-Hoc mode (networking without an Access Point) or in Infrastructure mode (networking using an Access Point). The DCF-650W transmits data at 11, 5.5, 2, 1 Mbps. Also, the DCF-650W provides an “Auto Fall-Back” feature to automatically adjust the speed of the adapter depending on the distance from the Access Point. In an open environment, the DCF-650W with its built-in antenna has a range of up to 460 feet at 11Mbps and up to 1311 feet at 1Mbps.

The DCF-650W requires a CompactFlash Type II interface that is available in most of the current pocket PCs or PDAs. To ensure long battery life, the DCF-650W has minimal power consumption of 17mA in sleep mode and less than 380mA in transmission mode. The DCF-650W is compatible with Windows CE version 3.0.

Key Features

- *Wireless Connection- Provides the Ultimate Convenience & Mobility for Office and Home users*
- *Supports Direct Sequence Spread Spectrum (DSSS) Technology in the 2.4 GHz Radio Frequency- Allows Fast High- Speed 11Mbps transfer Rate*
- *128-bit WEP(Wired Equivalent Privacy) Encryption Enhances Data Security*
- *IEEE 802.11b Compliance Allows Wider Interoperability With Existing Wireless Networks*
- *Fast & Easy Setup Simplifies Ability to Connect to the Network*
- *Auto Fall-Back feature and Channel Selection Optimizes Range, Throughput, and Connectivity*
- *Low Power Consumption of Less than 380mA Extends Battery Life*

Technical Specifications

Specification

Standards

IEEE 802.11b

Host interface

Compact Flash V1.4, CF+ I/O interface, Type II

Protocols

TCP/IP

Data Rate & Modulation

- 11Mbps: CCK
- 5.5Mbps: CCK
- 2Mbps: DQPSK
- 11Mbps: DBSK
- Auto Fall-Back

Range Coverage (Open Environment)

- 460 feet @ 11Mbps
- 656 feet @ 5.5Mbps
- 885 feet @ 2Mbps
- 1311 feet @ 1Mbps

Supported OS

Windows CE version 3.0

Diagnostic LED

Power, Link

Power Consumption

- TX power consumption: <380mA
- RX power consumption: <280mA
- Sleep Mode power consumption: 17mA

Output Power

14 dBm (Max. 18dB)

Voltage

3.3 VDC+/-10%

Network Architecture Types

- Supports Ad-Hoc and Infrastructure
- Roaming (standard IEEE 802.11 compliant)

Operating Channels

- United States (FCC): 11
- Canada (DOC): 11
- Europe: 13
- France: 4
- Japan: 13

Antenna

PIFA Patched Inverse "F" Antenna

Wireless LAN

Sensitivity @ PER<0.08

- 11Mbps < -80dBm
- 5.5Mbps < -83dBm
- 2 Mbps < -86dBm
- 1 Mbps < -88dBm

Frequency Range

2.412-2.462 GHz, Direct Sequence Spread Spectrum (DSSS)

Temperature

- Operating Temperature: 0 ~ 55°C
- Storage Temperature: -20 ~ 80 °C

Humidity

5~90% Non-condensing

Physical Dimensions

- L = 2.95 inches
- W= 0.17 inches
- H= 0.02 inches
- Weight < 1.10 lbs.

Compatibility

- Pocket PC

Compaq iPAQ (CPU: Strong ARM)
HP Jornada 525 and 548 (CPU: SH3)*
Casio E115 and E125 (MIPS R4000)

- Handheld PC

Sharp Telios (MIPS R3000)
HP Jornada 720 (Strong ARM)
Intel Pentium/X86 CPU

Ordering Information

DCF-650W

Wireless CompactFlash Card

D-Link®

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U.S.A	TEL: 1-949-788-0805	FAX: 1-949-753-7033	www.dlink.com
Canada	TEL: 1-905-829-5033	FAX: 1-905-829-5095	www.dlink.ca
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8235-5511	www.dlink.co.uk
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Taiwan	TEL: 7-095-737-3389	FAX: 7-095-737-3390	www.dlink.ru
D-Link Corp.	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515	www.dlinktw.com.tw
	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299	www.dlink.com