

Wireless Serial Connection for SMART Board™ Interactive Whiteboards

Specifications – Model WC2

NOTE: Approved for North America and the United Kingdom.

Physical Specifications

Size (each radio with antenna)	2 5/16" W × 7 1/8" D × 1" H (5.9 cm × 18.1 cm × 2.5 cm)
Weight (each radio with antenna)	4 oz. (0.11 kg)
Shipping Size	9" W × 10 1/4" H × 2 3/8" D (22.9 cm × 26.0 cm × 6.0 cm)
Shipping Weight	2 lb. 2 oz. (1 kg)

All dimensions +/- 1/8" (3.2 mm). All weights +/- 2 lb. (0.9 kg).

Standard Features

Software	SMART Board software and Notebook™ software. Free software upgrades are available at www.smarttech.com/support/software/index.asp .
Technology	IEEE 802.11b WiFi industry-standard wireless radio frequency
Host Interface	RS-232 or SMART USB to serial adapter cable (for firmware version 3.1 or later) NOTE: The wireless connection will work with any serial SMART product, but not a SMART USB peripheral device. For example, you can't connect the Symposium™ ID250 interactive pen display to the WC2. See the <i>Wiring Diagram</i> for connection examples.
Frequency	2.4 GHz spread spectrum (non-line-of-sight)
Range	Maximum 300' – 1,200' (91.4 m – 365.8 m)
Speed	11 Mbps
RF Channels	11 channels (U.S., Canada), 13 channels (Europe)
Transmission Power	14 dBm at antenna input typical
Receiver Sensitivity	-80 dBm @1e-5 BER typical
Antenna	Integrated dipole antenna with ~2 dBi gain
Data Rate	11, 5.5, 2 or 1 Mbps fixed rate, or configured to automatic rate selection
Modulation	CCK, Direct Sequence Spread Spectrum
Network Types	Supports a dedicated point-to-point link, ad hoc mode and infrastructure mode
Data Encryption	Supports standard 64-bit and 128-bit WEP
Network Security	MAC address-based access control
LED Indicators	4: Power, Transmission, Receiving, Link
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Regulation Compliance	FCC Part 15, CE
Configuration	Plug and Play (no additional software required)
Power	Universal switching power supply; input: 100V–240V AC 50 Hz–60 Hz 0.4A; output: 5V DC 2A (North America or UK). Requires an available USB port to supply 5V DC to host radio. NOTE: Can be used in other European countries with a locally purchased IEC/country-specific computer power cord.
Power Consumption	<480 mA (max. reached in transmit-mode)
Warranty	One-year limited equipment warranty

Computer Requirements

Windows® Operating Systems

Pentium® 150 MHz processor (450 MHz or faster recommended)
128 MB of RAM (256 MB recommended)
Available powered USB or serial port
Approximately 160 MB of free hard disk space for full installation
Windows NT® 4.0 (SP6), Windows 98 operating system or later
Microsoft Internet Explorer 5.0 or later
Macromedia® Flash® player version 7.0.19 or later (recommended)

Requirements for SMART Video Player

Pentium 450 MHz processor (700 MHz or faster recommended)
Windows 98 operating system or later. Does not run on the Windows NT operating system.
Microsoft DirectX® 8.1 End-User Runtime or later

Macintosh Computers

400 MHz processor (800 MHz or faster recommended)
128 MB of RAM (256 MB recommended)
Mac OS X version 10.1.5 or later (with Java™ version 1.3.1 update 1 or later)
50 MB of free hard disk space for minimum installation, 115 MB for full installation with Gallery collections
Available powered USB port

NOTES

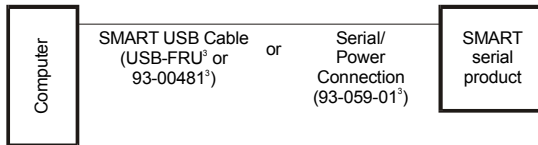
- SMART Board software is not compatible with versions 10.3.0, 10.3.1 or 10.3.2 of the Mac OS X operating system. To use the handwriting recognition feature, you must have Mac OS X version 10.3.3 or later.
- Windows NT 4.0 requires separate 5V power supply.

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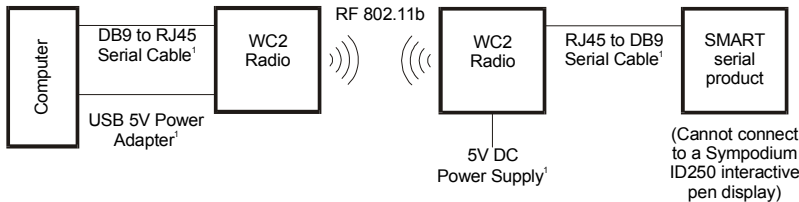
Wiring Diagram

The wireless connection will work with any serial SMART product, but not a SMART USB peripheral device. For example, you can't connect the Sympodium ID250 interactive pen display to the WC2.

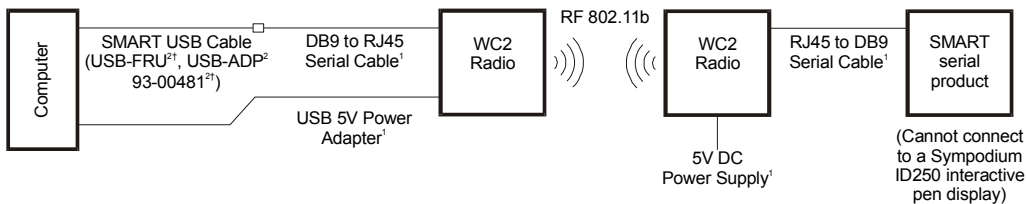
Example 1: Direct Connection



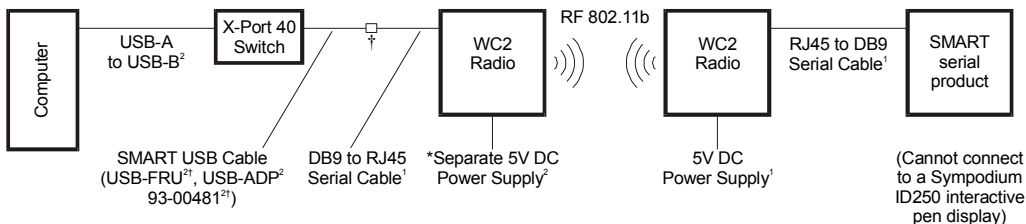
Example 2: WC2 Wireless Connection



Example 3: WC2 Wireless Connection Using Two USB Ports



Example 4: WC2 Wireless Connection with X-Port 40



- 1 - Supplied with WC2
- 2 - Not supplied with WC2
- 3 - Supplied with SMART serial product
- * - You must use a Class 2 power supply if you install it inside a cabinet.
- † - You may require a gender changer (FRU-MA506) to make this connection.

SMART Order Number

WC2-NA	SMART Wireless Connection (U.S. and Canada only)
WC2-UK	SMART Wireless Connection (UK only)
USB-FRU	21'6" (6.6 m) SMART USB-A to DB9F serial cable
93-059-01	20' (6.1 m) SMART DB9F to DB9F/DC jack cable
93-00481	22' (6.7 m) SMART USB-A to DB9F serial adapter
USB-ADP	2'6" (76.2 cm) SMART USB-A to DB9M adapter cable
XP40	X-Port 40 switch
FRU-MA506	DB9M/DB9M mini gender changer
60-00026	Separate 5V DC power supply (country-specific power cord not included)

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