

Digi Connect® Wi-SP



The Wi-SP is built on leading NetSilicon® 32-bit NET+ARM technology. This wireless device server delivers a true plug-and-play device networking solution that combines the benefit of secure wireless networking technology with proven serial port connectivity. It is the ideal choice in retail, warehouse, healthcare and medical applications, allowing you to respond immediately to the ever-changing requirements and challenges.

Features:

- 32-bit NET+ARM high-performance RISC processor (NS7520 55MHz) • 4MB Flash and 16MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; None/even/odd parity; Full signal support with software/hardware flow control • 802.11b wireless LAN interface; Infrastructure (BSS) and Ad-Hoc Mode (IBSS) • Flexible 9-30VDC power supply

B

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Wireless Device Server Adapter	602-1032-ND	369.00	DC-WSP-01-S

Digi Connect® Wi-ME

The Digi Connect Wi-ME is a fully customizable and secure 802.11b wireless embedded module and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features:

- 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55MHz) • Radio pre-certified in North America, EU and Japan • 2 high-speed TTL serial interfaces • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware	602-1037-ND◆	130.00	DC-WME-01T-S
8MB SDRAM, 4MB Flash, Customizable	602-1038-ND◆	130.00	DC-WME-01T-C
Integration Kit (for use with "S" models)	602-1051-ND◆	299.00	DC-WME-01T-KT
Development Kit (for use with "C" models)	602-1000-ND◆	1495.00	DC-WME-01T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1001-ND	895.00	DC-WME-01T-GN-NR
Customizable with JTAG Interface	602-1002-ND	249.00	DC-WME-01T-JT

◆ RoHS Compliant

Digi Connect® Wi-EM

The Digi Connect Wi-EM is a fully customizable and secure 802.11b wireless embedded module that provides integration flexibility in a variety of connection options, and makes fully transparent 802.11b integration possible without the traditional complexities of hardware and software integration work.

Features:

- 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55 MHz) • 2 high-speed TTL serial interfaces • Radio pre-certified in North America, EU and Japan • On-board memory 4MB Flash and 8MB RAM • WPA/WPA2/802.11i • Transmit power: 16dBm typical • Receive sensitivity: -82dBm @ 11Mbps • Five shared General Purpose Input/Output (GPIO) ports • High-speed TTL serial interface • 3.3VDC @ 400mA max (1.32W)

Description	Digi-Key Part No.	Price Each	Digi International Part No.
8MB SDRAM, 4MB Flash, Std. Firmware without antenna	602-1067-ND◆	140.00	DC-WEM-02T-NC
8MB SDRAM, 4MB Flash, Std. Firmware	602-1041-ND◆	140.00	DC-WEM-02T-S
Integration Kit (for use with "S" models)	602-1008-ND◆	299.00	DC-WEM-02T-KT
Development Kit (for use with "C" models)	602-1009-ND	1495.00	DC-WEM-02T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1010-ND	895.00	DC-WEM-02T-GN-NR
Development Board with Customizable JTAG Wi-EM module	602-1011-ND	299.00	DC-WEM-02T-JT-DB
Customizable module with JTAG Interface	602-1012-ND◆	249.00	DC-WEM-02T-JT

◆ RoHS Compliant

ConnectCore™ Wi-9C

Highly-integrated, compact DIMM form factor module based on the 155MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity. It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high performance solution.

- 32-bit NS9360 high performance RISC processor (155MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I²C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock • Pin-compatible wired and wireless modules • Standard: IEEE 802.11b/g • Transmit power: 16dBm typical • Receive sensitivity: -73dBm at 54Mbps • Connector: 1/2 x RP-SMA or 2 x U.FL

Description	Digi-Key Part No.	Price Each	Digi International Part No.
JumpStart Kit for Wi-9C with NET+OS	602-1068-ND	499.00	CC-W9C-NET
JumpStart Kit for Wi-9C with Windows CE	602-1077-ND	499.00	CC-W9C-CE6
JumpStart Kit for Wi-9C with Embedded Linux	602-1078-ND	499.00	CC-W9C-LX

Antennas for Digi Wireless Modules

Description	Digi-Key Part No.	Price Each	Digi International Part No.
2.4GHz Dipole Antenna with 2dBi Gain	602-1064-ND◆	10.00	DC-ANT-24DP
2.4GHz Desktop Antenna with 2dBi Gain	602-1065-ND	20.00	DC-ANT-24DT
30cm Extension Cord with RP-SMA Bulkhead Connector	602-1066-ND◆	12.00	DC-ANT-E-24DP

◆ RoHS Compliant



802.11b/g Modules and Kits

AirborneDirect™ Bridge Modules come with either Ethernet, Serial (RS232/422/485) or RS232 connections, to a wireless LAN interface utilizing an 802.11b radio. Used to easily integrate wireless into a design. Includes

antenna. **Airborne™ Embedded Modules:** Versions include LAN mode module, module with Integrated Ethernet Bridge software or a module with Integrated Serial Bridge software. U.FL Connector on board.

Description	Connection Type	Digi-Key Part No.	Price Each			DPAC/Quatech Part No.
			1	10	25	
AirborneDirect™ Modules / Kits						
Wireless Device Server 802.11b with Antenna	Ethernet	590-1000-ND	192.16	168.14	162.14	ABDB-ET-DP101
Wireless Device Server 802.11b with Antenna	Serial (RS232/422/485)	590-1001-ND	202.80	177.45	171.12	ABDB-SE-DP101
Wireless Device Server 802.11b with Antenna	Serial (RS232/422/485)	590-1024-ND◆	202.80	177.45	171.12	ABDB-SE-DP101-G
Wireless Device Server 802.11b with Antenna	RS232	590-1002-ND	192.16	168.14	162.14	ABDB-SE-DP107
Wireless Device Server 802.11b with Antenna	RS232	590-1025-ND◆	192.16	168.14	162.14	ABDB-SE-DP107-G
Wireless Device Server 802.11b/g with Antenna	RS232/422/485	590-1018-ND◆	206.60	177.45	171.12	ABDG-SE-DP101-G
Wireless Device Server 802.11b/g with Antenna	RS232/422/482	590-1038-ND◆	278.40	243.60	230.55	ABDG-SE-DP103
Wireless Device Server 802.11b/g with Antenna	RS232	590-1019-ND◆	195.76	168.14	162.14	ABDG-SE-DP104-G
Wireless Device Server 802.11b/g with Antenna	RS232	590-1039-ND◆	263.68	230.72	218.36	ABDG-SE-DP106
Wireless Device Server 802.11b/g Serial Powered with Antenna	RS232	590-1020-ND◆	195.76	168.14	162.14	ABDG-SE-DP107-G
Wireless Ethernet Bridge 802.11b/g	Ethernet	590-1021-ND◆	195.76	168.14	162.14	ABDG-ET-DP101-G
Airborne™ Embedded Modules / Kits — RoHS Compliant						
802-11b Module with U.FL Antenna Port	Serial	590-1032-ND	109.06	93.02	89.81	WLNb-AN-DP101-G
802-11b Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1034-ND	109.06	93.02	89.81	WLNb-ET-DP101-G
802.11b/g Module Integrated Serial Bridge Software with U.FL Antenna Port	RS232	590-1015-ND	110.98	93.02	89.81	WLNb-AN-DP101-G
802.11b/g Module Integrated Serial Bridge Software with U.FL Antenna Port	Serial (RS232/422/485)	590-1016-ND	110.98	93.02	89.81	WLNb-SE-DP101-G
802.11b/g Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1017-ND	110.98	93.02	89.81	WLNb-ET-DP101-G
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1037-ND	255.83	219.73	207.96	ABDG-ET-DP103
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Ethernet	590-1036-ND	279.00	—	—	ABEG-ET-DP103-G
Development Kit for Airborne Embedded 802.11b/g Module with Wireless Access Point	Serial (RS232/422/485)	590-1040-ND	486.53	437.88	413.55	WLNb-EK-DP001
Development Kit for Airborne Embedded 802.11b/g Module without Wireless Access Point	Serial	590-1022-ND	328.95	—	—	WLNb-EK-DP003-G
Antennas and Accessories						
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1005-ND	14.85	11.22	10.56	ACHO-CA-DP004
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1014-ND◆	11.70	9.00	8.48	ACHO-CA-DP004-G
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1006-ND	10.69	8.08	7.60	ACH2-AT-DP002
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1028-ND◆	10.69	8.08	7.60	ACH2-AT-DP002-G
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1007-ND	12.38	9.52	8.97	ACH2-AT-DP003
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1029-ND◆	12.38	9.52	8.97	ACH2-AT-DP003-G
Antenna, 5dBi, Rubber Duck, U.FL (Flying Lead)	—	590-1030-ND◆	13.39	10.12	9.52	ACH2-AT-DP004-G
Antenna, 5dBi, Magnetic Mount, Indoor/Outdoor	—	590-1031-ND◆	52.50	42.00	39.38	ACH2-AT-DP011-G

◆ RoHS Compliant

More Product Available Online: www.digkey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380