D-Link®

		DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
IEEE 802.11g					
	Standard	IEEE 802.11g	IEEE 802.11g	IEEE 802.11g	IEEE 802.11g
	Radio and Modulation Type	BPSK, QPSK, 16QAM, 64QAM, OFDM	BPSK, QPSK, 16QAM, 64QAM, OFDM	BPSK, QPSK, 16QAM, 64QAM, OFDM	BPSK, QPSK, 16QAM, 64QAM, OFDM
	Operating Frequency	2400 ~ 2483.5MHz ISM band	2400 ~ 2483.5MHz ISM band	2400 ~ 2483.5MHz ISM band	2400 ~ 2483.5MHz ISM band
	Channel Numbers	11 Channels	11 Channels	11 Channels	11 Channels
	Data Rate[1]	54, 48, 36, 24, 18, 12, 9 and 6Mbps	54, 48, 36, 24, 18, 12, 9 and 6Mbps	54, 48, 36, 24, 18, 12, 9 and 6Mbps	54, 48, 36, 24, 18, 12, 9 and 6Mbps
	Media Access Protocol	CSMA/CA with ACK	CSMA/CA with ACK	CSMA/CA with ACK	CSMA/CA with ACK
	Transmitter Output Power	+15dBm at 54Mbps	+15dBm at 54Mbps	+15dBm at 54Mbps	+15dBm at 54Mbps
		+16dBm at 48Mbps	+16dBm at 48Mbps	+14 ~ 16dBm at 48Mbps	+14 ~ 16dBm at 48Mbps
		+17dBm at 36Mbps	+17dBm at 36Mbps	+17dBm at 36Mbps	+17dBm at 36Mbps
		+18dBm at 24, 18, 12, 9, and 6Mbps	+18dBm at 24, 18, 12, 9, and 6Mbps	+18dBm at 24, 18, 12, 9, and 6Mbps	+18dBm at 24, 18, 12, 9, and 6Mbps
	Receiver Sensitivity	Typical Sensitivity @ which frame (1000-byte PDUs) Error Rate=10%	Typical Sensitivity @ which frame (1000-byte PDUs) Error Rate=10%	Typical Sensitivity @ which frame (1000-byte PDUs) Error Rate=10%	Typical Sensitivity @ which frame (1000-byte PDUs) Error Rate=10%
		–85dBm at 6Mbps	–85dBm at 6Mbps	–85dBm at 6Mbps	–85dBm at 6Mbps
		–84dBm at 9Mbps	–84dBm at 9Mbps	–84dBm at 9Mbps	–84dBm at 9Mbps
		–82dBm at 12Mbps	–82dBm at 12Mbps	–82dBm at 12Mbps	–82dBm at 12Mbps
		–80dBm at 18Mbps	–80dBm at 18Mbps	–80dBm at 18Mbps	–80dBm at 18Mbps
		–77dBm at 24Mbps	–77dBm at 24Mbps	–77dBm at 24Mbps	–77dBm at 24Mbps
		–73dBm at 36Mbps	–73dBm at 36Mbps	–73dBm at 36Mbps	–73dBm at 36Mbps
		–69dBm at 48Mbps	–69dBm at 48Mbps	–69dBm at 48Mbps	–69dBm at 48Mbps
		–68dBm at 54Mbps	–68dBm at 54Mbps	–68dBm at 54Mbps	–68dBm at 54Mbps
IEEE 802.11a					
	Standard	x	x	IEEE 802.11a	IEEE 802.11a
	Radio and Modulation Type	x	x	BPSK, QPSK, 16QAM, 64QAM, OFDM	BPSK, QPSK, 16QAM, 64QAM, OFDM
	Operating Frequency	x	x	5.15 ~ 5.24GHz	5.15 ~ 5.24GHz
		x	x	5.745 ~ 5.805GHz	5.745 ~ 5.805GHz
	Channel Numbers	x	x	8 non-overlapping channels	8 non-overlapping channels
	Data Rate[1]	x	x	54, 48, 36, 24, 18, 12, 9 and 6Mbps	54, 48, 36, 24, 18, 12, 9 and 6Mbps
	Media Access Protocol	x	x	CSMA/CA with ACK	CSMA/CA with ACK

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Transmitter Output Power	x	x	+12 ~ 15dBm at 54Mbps	+12 ~ 15dBm at 54Mbps
	x	x	+14 ~ 16dBm at 48Mbps	+14 ~ 16dBm at 48Mbps
	x	x	+17 ~ 18dBm at 36Mbps	+17 ~ 18dBm at 36Mbps
	x	x	+18 ~ 19dBm at 24, 18, 12, 9, and 6Mbps	+18 ~ 19dBm at 24, 18, 12, 9, and 6Mbps
Receiver Sensitivity	x	x	Typical Sensitivity at Which Frame (1000-byte PDUs) Error Rate = 10%	Typical Sensitivity at Which Frame (1000-byte PDUs) Error Rate = 10%
	x	x	–84dBm at 6Mbps	–84dBm at 6Mbps
	x	x	–83dBm at 9Mbps	–83dBm at 9Mbps
	x	x	–81dBm at 12Mbps	–81dBm at 12Mbps
	x	x	–79dBm at 18Mbps	–79dBm at 18Mbps
	x	x	–76dBm at 24Mbps	–76dBm at 24Mbps
	x	x	–72dBm at 36Mbps	–72dBm at 36Mbps
	x	x	–68dBm at 48Mbps	–68dBm at 48Mbps
	x	x	–67dBm at 54Mbps	–67dBm at 54Mbps

General Product Specifications

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Interface	Power Jack	Power Jack	Power Jack	Power Jack
	Factory Reset Button	Factory Reset Button	Factory Reset Button	Factory Reset Button
	10/100Base-TX (UTP)	10/100Base-TX (UTP)	10/100Base-TX (UTP)	10/100Base-TX (UTP)
	Wireless Dipole Antenna	Wireless Dipole Antenna	Wireless Dipole Antenna	Wireless Dipole Antenna
External Antenna Type	Dipole antenna with 2dBi gain for 2.4GHz	Dipole antenna with 5dBi gain for 2.4GHz	Dipole antenna with 2dBi gain for 2.4GHz/5GHz	Dipole antenna with 5dBi gain for 2.4GHz/5GHz
Internal Antenna Type	Printed antenna for 2.4GHZ	Printed antenna for 2.4GHz	PIFA antenna with 5dBi gain for 2.4GHz/5GHz	Printed antenna for 2.4GHz/5GHz
Ethernet Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
LEDs	Power, Speed, Wireless	Power, Speed, Wireless	Power, Speed, Wireless 802.11a & 802.11b/g	Power, Speed, Wireless 802.11a & 802.11b/g

Physical Specifications

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Dimensions (W x D x H)	4.25" x 5.59" x 1.25" (142mm x 108mm x 31mm)	4.25" x 5.59" x 1.25" (142mm x 108mm x 31mm)	5.51" x 7.6" x 1.22" (140mm x 193mm x 31mm)	7.6" x 5" x 1.3" (193mm x 127mm x 32mm)

Electrical & Emissions

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Operating Voltage	5VDC +/- 10%	48VDC +/- 10%	5VDC +/- 10%	48VDC +/- 10%
Current Consumption	Maximum 5W	Maximum 6W (8W with PoE)	Maximum 6W	Maximum 6W (8W with PoE)

Safety Agency Certifications & Environmental

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Operating Temperating	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Non-Operating Temperature	-4°F to 149°F (-20°C to 65°C)	-4°F to 149°F (-20°C to 65°C)	-4°F to 149°F (-20°C to 65°C)	-4°F to 149°F (-20°C to 65°C)

	DWL-2130AP	DWL-2230AP	DWL-7130AP	DWL-7230AP
Operating Humidity	10% ~ 90% RH Non-condensing	10% ~ 90% RH Non-condensing	10% ~ 90% RH Non-condensing	10% ~ 90% RH Non-condensing
Non-Operating Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%
USA				
EMI (802.11a)	x	x	FCC Part 15.407 (b) Power limits: FCC Part 15.407 (a)	FCC Part 15.407 (b) Power limits: FCC Part 15.407 (a)
EMI (802.11g/b)	FCC part 15.247, 15.205, 15.209	FCC part 15.247, 15.205, 15.209	FCC part 15.247, 15.205, 15.209	FCC part 15.247, 15.205, 15.209
Safety	UL 1950-3 CSA mark	UL 1950-3 CSA mark	UL 1950-3 CSA mark	UL 1950-3 CSA mark
Canada				
EMI (802.11a)	x	x	Power limits: RSS-210 6.2.2 (91)	Power limits: RSS-210 6.2.2 (91)
EMI (802.11g/b)	Power limits: RSS-210 6.2.2 (91)	Power limits: RSS-210 6.2.2 (91)	Power limits: RSS-210 6.2.2 (91)	Power limits: RSS-210 6.2.2 (91)
Safety	CSA-International	CSA-International	CSA-International	CSA-International

Ordering Information

Part Number	Description
DWL-2130AP	xStack Access Point, 802.11g
DWL-2230AP	xStack PoE Access Point, 802.3af, 802.11g
DWL-7130AP	xStack Access Point, 802.11a/g
DWL-7230AP	xStack PoE Access Point, 802.3af, 802.11a/g
DXS-3227	xStack Managed 24-Port Gigabit Stackable L2+ PoE Switch, 4 Combo SFP, 3 XG Slots (AP License Required)
DXS-3227P	'Wireless-ready' 24-port Gigabit PoE L2+ switch with onboard 10G XFP slot and 2 additional optional 10G CX4/XFP
DXS-3250	xStack Managed 48-Port Gigabit Stackable L2+ Switch, 4 Combo SFP ports, 2-10 Gig Uplink (AP License Required)
DS-710	10 Access Point License, xStack Wireless Switching
DS-725	25 Access Point License, xStack Wireless Switching
DS-750	50 Access Point License, xStack Wireless Switching

[1] Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11b, and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

BUSINESS