

smartBridges extensive portfolio of Intelligent Wireless Broadband products provides end-to-end connectivity for varying deployment needs. All models provide a common management user interface to seamlessly integrate into the network.

Features	Access Points					Client Devices			Wireless Backhuls				
Models	sB3221	sB3212H/V	sB3210	sB3213V (new)	sB3214V (new)	sB3412	sB3415 (new)	sB3414	sB3021	sB3012	sB3010	sB3013 (new)	sB3014 (new)
Product Names	airPoint <sup>2</sup> Nexus PRO	airPoint Nexus PRO TOTAL	airPoint Nexus	airPoint Nexus TOTAL 241	airPoint Nexus TOTAL 551	airClient Nexus PRO TOTAL	airClient TOTAL 241	airClient Nexus TOTAL 551	airHaul <sup>2</sup> Nexus PRO	airHaul Nexus PRO TOTAL	airHaul Nexus	airHaul Nexus TOTAL 241	airHaul Nexus TOTAL 551
No of Radios	Two	One	One			One	One	One	Two	One	One		
OPERATIONAL PARAMETERS AND SECURITY CONFIGURATIONS													
Max Throughput	Dual Access Point: 45 Mbps (UDP) 35 Mbps (TCP) Cell Extender: 25 Mbps (UDP) 20 Mbps (TCP)	25 Mbps (UDP), 20 Mbps (TCP)	15 Mbps (TCP & UDP)			6 Mbps (TCP & UDP)	1 Mbps (TCP & UDP)	3 Mbps (TCP & UDP)	Link Aggregation: 45 Mbps (UDP) 35 Mbps(TCP) Repeater: 25 Mbps (UDP) 20 Mbps (TCP)	25 Mbps (UDP), 20 Mbps (TCP)	15 Mbps (TCP & UDP)	10 Mbps (TCP & UDP)	
Radio Frequency Bands													
2.400 - 2.485 Ghz	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No
5.150 - 5.350, 5.470 - 5.875 GHz	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes
Non-overlapping channels*, 20 MHz BW	27	27	27	3	24	27	3	24	27	27	27	3	24
Built-in Antenna Specification	NA	12 dBi, 90° (H/V)	NA	12 dBi, 90° (V)	12 dBi, 90° (V)	15 dBi, 28° (2.4 GHz), 17 dBi, 18° (5.x GHz)	14 dBi, 43°	17 dBi, 18°	NA	15 dBi, 28° (2.4 Ghz) 17 dBi, 18° (5.x Ghz)	NA	15 dBi, 28°	17 dBi, 18°
Operating Modes	Fully transparent Bridge, Router or NAT	Fully transparent Bridge, Router or NAT	Fully transparent Bridge, Router or NAT	Fully transparent Bridge	Fully transparent Bridge	Fully transparent Bridge, Router or NAT	Router or NAT	Router or NAT	Fully transparent Bridge, Router or NAT	Fully transparent Bridge, Router or NAT	Fully transparent Bridge, Router or NAT		
Max Distance (FCC Domain)	Dual Access Point: 16 km (10 miles) Cell Extender: 40 km (25 miles)	16 km (10 miles)	16 km (10 miles)			16 km (10 miles)	6 km (4 miles)	5 km (3 miles)	Link Aggregation: 40 km (25 miles) Repeater: 80 km (50 miles)	50 km (30 miles)	40 km (25 miles)		
AES Security	Yes	Yes	No			Yes	No	No	Yes	Yes	No		
MAC Authentication	Yes	Yes	Yes			NA	NA	NA	Yes	Yes	Yes		
MANAGEMENT PARAMETERS													
Bandwidth Management	Wireless	Wireless	Wireless			Ethernet & Wireless	Wireless	Wireless	Wireless	Wireless	Wireless		
Quality of Service for Traffic Prioritization	Yes	Yes	No			Yes	No	No	Yes	Yes	No		
Network Redundancy using STP	Yes	Yes	Yes			Yes	No	No	No	No	Yes		
Web and SNMP based management, SNMP v2c (MIB II compliant)	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes		
Antenna Alignment Tools	NA	NA	NA			Yes	Yes	Yes	Yes	Yes	Yes		
Utilities: Link test, Remote Wireless Firmware Upgrade, Link Budget calculator, Calendar function, Device Discovery tool, Radio and Ethernet Traffic Statistics, Configurable Syslog reports and SNMP traps	Yes	Yes	Yes			Yes	Yes#	Yes	Yes	Yes	Yes		
COMPLIANCE PARAMETERS and PHYSICAL SPECIFICATION													
Standards Compliance	IEEE 802.11 a/b/g	IEEE 802.11 a/b/g	IEEE 802.11 a/b/g	IEEE 802.11 b/g	IEEE 802.11 a	IEEE 802.11 a/b/g	IEEE 802.11 b/g	IEEE 802.11 a	IEEE 802.11 a/b/g	IEEE 802.11 a/b/g	IEEE 802.11 a/b/g	IEEE 802.11 b/g	IEEE 802.11 a
Radio Modulation													
COFDM with BPSK, QPSK, 16 QAM, 64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSSS with CCK, BPSK, QPSK	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No
Enclosure	Plenum rated metal	Outdoor rated UV stabilized plastic (IP65)	Plenum rated metal	Outdoor rated UV stabilized plastic (IP65)	Outdoor rated UV stabilized plastic (IP65)	Outdoor rated UV stabilized plastic (IP65)	Outdoor rated UV stabilized plastic (IP65)	Outdoor rated UV stabilized plastic (IP65)	Plenum rated metal	Outdoor rated UV stabilized plastic (IP65)	Plenum rated metal	Outdoor rated UV stabilized plastic (IP65)	Outdoor rated UV stabilized plastic (IP65)
Number of Ethernet ports (10/100 BaseT with Auto MDI/MDX)	Two	Two	Two			Two	One	One	Two	Two	Two		
Radio Operating Environment	-49°F to +140°F (-45°C to +60°C)	-49°F to +140°F (-45°C to +60°C)	-49°F to +140°F (-45°C to +60°C)			-49°F to +140°F (-45°C to +60°C)	-22°F to +140°F (-30°C to +60°C)	-22°F to +122°F (-30°C to +50°C)	-49°F to +140°F (-45°C to +60°C)	-49°F to +140°F (-45°C to +60°C)	-49°F to +140°F (-45°C to +60°C)		
Power Consumption	48V, 270mA (13W)	48V, 200mA (9.6W)	48V, 200mA (9.6W)			48V, 200mA (9.6W)	48V, 200mA (7 W)	48V, 200mA (9.6W)	48V, 270mA (13W)	48V, 200mA (9.6W)	48V, 200mA (9.6W)		
Certifications	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	CEI: EN 50385: 2002, FCC: In progress	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139	FCC, CE1313!, WEEE & Canada: RSS 139	FCC, CE1313!, WEEE, OFCOM, UK RIR & VNS & Canada: RSS 139

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\* All channels may not be available in your regulatory domain.  
# For the 1st phase only site survey, signal strength, link test, radio traffic statistics.

For detailed product information, visit  
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