

# AP-5131 Access Point

Enterprise-class 802.11a/b/g Access Point: Combination Wired/Wireless Networking for Branch Offices and Small Businesses

## WIRED/WIRELESS LAN

### Cost-effective, secure, high-performance wired and wireless connectivity

Designed for small offices and retail locations, the AP-5131 delivers wired and wireless networking with enterprise-class performance and security in a single device. This easy-to-deploy solution offers the flexibility to connect securely to remote corporate private networks, the Internet and local network resources with the speed and reliability to support the most demanding applications, including real-time video and voice. The all-in-one AP-5131 delivers a new level of cost-efficiency and networking simplicity for employees in branch offices or telecommuters working at home. The 5131 boasts an integrated router, firewall, VPN, DHCP, AAA, hotspot gateway, and other services in one remotely manageable device, simplifying network set-up and management.

### Enterprise-class security and manageability

Support for today's standards-based security protocols ensures enterprise-level protection for users on wireless laptops and other mobile devices, as well as wired computers. A wide variety of administration features provide powerful and secure control by either local, non-technical staff or remote IT professionals in the Network Operations Center.

### Dual-radio 802.11a/b/g architecture

The dual-radio architecture offers the flexibility to best meet wireless LAN networking and security needs through either dual-band data services, or single-band data services and full-band rogue AP detection, which identifies and reports unauthorized entities on the network. A complete suite of dual and single-band antennas provides the versatility to customize radio coverage for even the most challenging environments, with a minimal number of access points.

### Mesh networking

To enable the extension of wireless network coverage to areas where ethernet or fiber cabling is cost-prohibitive or otherwise impractical, the AP-5131 can operate wirelessly, connecting to other access points for data backhaul, in a mesh topology. Enabling an array of applications, from simple point-to-point bridges connecting two wired networks, to complex multi-node, multi-link networks, this features offers a cost-effective way to extend the network outdoors or in remote areas, relying on a highly resilient, self-configuring system. Taking advantage of the dual-radio architecture and the easy-to-use configuration interface, it becomes a simple task to deploy a wireless network of access points connected securely via 802.11a, providing enterprise-class 802.11b/g service.

For more information on the AP-5131, contact Symbol at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at [www.symbol.com/AP5131](http://www.symbol.com/AP5131)



#### FEATURES

WAN and LAN Ethernet ports

Dual-radio, dual-band design;  
802.11a/b/g in 2.4/5 GHz bands

Integrated router, firewall and  
DHCP server

AAA server and hotspot gateway

Mesh networking

Triple methodology rogue AP  
detection: on-channel, mobile unit,  
dedicated radio dual-band scanning

802.11i, WPA2 and WPA; triple-  
DES IPSec encryption; VPN client

Wi-Fi Multimedia (WMM™)  
Quality of Service (QoS) and  
Voice prioritization

Java™ web-based graphical user  
interface; Symbol Mobility Services  
Platform (MSP); SNMPv3;  
command line interface (CLI)

#### BENEFITS

Single device solution for  
both wired and wireless  
networking

Works with any standards-  
based IEEE WLAN

Easy to scale, upgrade and  
maintain

Integrated services for  
authentication and public  
access management

Allows wireless extension  
of existing wired or wireless  
networks in remote or  
outdoor locations

Network protection through  
instant identification and  
reporting of unauthorized  
users

End-to-end enterprise class  
wired and wireless security

Superior performance for  
demanding mission critical  
applications, including voice  
and video

Flexible management  
options; easy-to-use  
"anytime, anywhere"  
management

# AP-5131 Specifications

## Physical Characteristics

Dimensions:	5.32 in. L x 9.45 in. W x 1.77 in. H 135 mm L x 240 mm W x 45 mm H
Weight:	1.95 lbs/0.884kg
Housing:	Metal, plenum-rated housing (UL2043)
Available Mounting Configurations:	No additional hardware required to mount on desktop, above drop ceiling, under ceiling or on wall
LEDs:	4 top mounted LEDs, 2 bottom mounted LEDs, with multiple modes indicating 802.11a/802.11g activity, power, adoption and errors
Uplink:	2 ports (WAN, LAN) Auto-sensing 10/100Base-T Ethernet

## User Environment

Operating Temperature:	-4°F – 122°F/-20°C to 50°C
Storage Temperature:	-40°F to 158°F/-40°C to 70°C
Operating Humidity:	5 to 95% RH non-condensing
Operating Altitude:	8000 ft./2438m @ 82°F/28°C
Storage Altitude:	15000 ft./4572m @ 53°F/12°C
Electrostatic Discharge:	15kV air, 8kV contact

## Power Specifications

Operating Voltage:	48V DC
Operating Current:	200mA
Integrated PoE Support:	802.3af on LAN Port

## Radio Specifications

Wireless Medium:	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)
Network Standards:	802.11a, 802.11b, 802.11g, 802.3
Data Rates Supported:	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps
Operating Channels:	Chan 1-35 (4920 – 5825 MHz) Chan 1-13 (2412-2472 MHz) Chan 14 (2484 MHz) Japan only Actual operating frequencies depend on regulatory rules and certification agency
Available Transmit Power Settings:	4-20 dBm

Operating Bands:	<b>FCC</b>	<b>EU</b>
	2.412 to 2.462 GHz 5.150 to 5.250 (UNII -1) 5.250 to 5.350 (UNII -2) 5.725 to 5.825 (UNII -3) 5.725 to 5.850 (ISM)	2.412 to 2.472 GHz 5.150 to 5.250 GHz 5.150 to 5.350 GHz 5.470 to 5.725 GHz (Country Specific)
	<b>Japan</b>	
	2.412 to 2.484GHz 4.900 to 5.000 GHz 5.150 to 5.250 GHz	

Receiver Sensitivity:	<b>Radio .11a (dBm)</b>	6 Mbps	-91
	<b>10% PER for 1000 bytes</b> <i>IEEE 802.11a sect</i> <i>17.3.10.1 (MIN) &amp;</i> <i>17.3.10.4 (MAX)</i>	9 Mbps	-89
		12 Mbps	-87
		18 Mbps	-83
		24 Mbps	-81
		36 Mbps	-78
		48 Mbps	-74
		54 Mbps	-73
	<b>Radio .11g (dBm)</b>	6 Mbps	-89
	<b>10% PER for 1000 Octets</b> <i>IEEE 802.11g sect</i> <i>19.5.1 (MIN) &amp;</i> <i>19.5.3 (MAX)</i>	9 Mbps	-88
		12 Mbps	-85
		18 Mbps	-82
		24 Mbps	-80
		36 Mbps	-77
		48 Mbps	-72
		54 Mbps	-70
	<b>Radio .11b (dBm)</b>	1 Mbps	-94
	<b>8% PER for 1,024 Octets</b>	2 Mbps	-90
		5.5 Mbps	-88
		11 Mbps	-84

## Regulatory

Standards Compliance:	Wi-Fi: 802.11a/b/g, WPA2, WMM
Product Safety Certs.:	UL / cUL 60950-1, IEC / EN60950-1, UL2043, TUV GS, RoHS
Radio Approvals:	FCC (USA), Industry Canada, CE (Europe), TELEC (Japan)

Part Numbers	Single radio 802.11a/g	Dual radio 802.11a+g	Dual-band antenna	PoE power supply
AP-5131-40020-WW	•			
AP-5131-40021-WWR	•			•
AP-5131-40022-WW	•		• (x2)	
AP-5131-40023-WWR	•		• (x2)	•
AP-5131-13040-WW		•		
AP-5131-13041-WWR		•		•
AP-5131-13042-WW		•	• (x4)	
AP-5131-13043-WWR		•	• (x4)	•

# About Symbol Technologies

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- ✓ *Project justification & ROI*
- ✓ *Wireless design, RF site survey and spectrum analysis*
- ✓ *WWAN, WLAN design & installation*
- ✓ *Custom software*
- ✓ *Integration w/legacy systems*
- ✓ *Mobile computers*
- ✓ *Data collection terminals*
- ✓ *Barcode printers, labels and scanners*
- ✓ *RFID solutions*
- ✓ *Configuration and deployment*
- ✓ *Training and installation*
- ✓ *Service and upgrades*
- ✓ *Remote device management and support*

*TPI can share best practices in data collection from a number of industries including wholesale distribution, manufacturing, healthcare and retail/consumer goods. Our expertise allows you to shorten your learning curve and increase your return on investment.*

Product specification sheet provided by TPI

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