

WHITE PAPER | APPLICATION STORY

Industry: Healthcare IT - Wireless

Product: Dual-band 802.11 Wi-Fi Ethernet Bridge/Router

+ GET THE MOST OUT OF WIRELESS NETWORKS IN HEALTHCARE

CHALLENGE

The opportunity to implement mobile and Wi-Fi-enabled medical devices in recent years has been a boon for the healthcare industry, both in improving patient care and solving proficiency problems of the past. But, these benefits hinge on one major factor: the maintenance of reliable and secure Wi-Fi network connections.

As Wi-Fi access has flourished in hospitals, Wi-Fi signals from personal devices belonging to patients and visitors have begun to saturate the license-free 2.4 GHz band. This can lead to degraded connections, timeouts and data retries. When this occurs, the healthcare industry benefits of Wi-Fi connections and mobility are diminished.



SOLUTION

How can we make sure these saturation issues don't crush a network and those who rely on it? Dual-band Wi-Fi is the answer. A dual-band Wi-Fi device that can use either 2.4 GHz or 5 GHz Wi-Fi to establish the best wireless connection for the local environment confers great advantages.

With dual-band Wi-Fi, there is no interference from other devices that you would encounter in a typical medical setting. Users can switch between the 2.4 GHz and (usually less-used) 5 GHz frequencies. The AirborneM2M™ series' Model ABDN-ER-DP551 dual-band Ethernet bridge/router from B+B SmartWorx can connect equipment to networks via 2.4 GHz and 5 GHz license-free bands.

WHY B+B SMARTWORX?

Whether you need an access point to connect wireless LAN users to a wired network and to each other, or a Wi-Fi Ethernet bridge/router to connect a wired device to a wireless network, B+B SmartWorx has a range of advanced solutions for all your industrial applications.

AirborneM2M Series: When the 2.4 GHz band is overcrowded, Model ABDN-ER-DP551 can operate at 5 GHz, offering vital flexibility. Additionally, the ABDN-ER-DP551's small form factor and low power requirement allows it to fit just about anywhere—even in the most crowded medical cart—and it will operate on USB power.

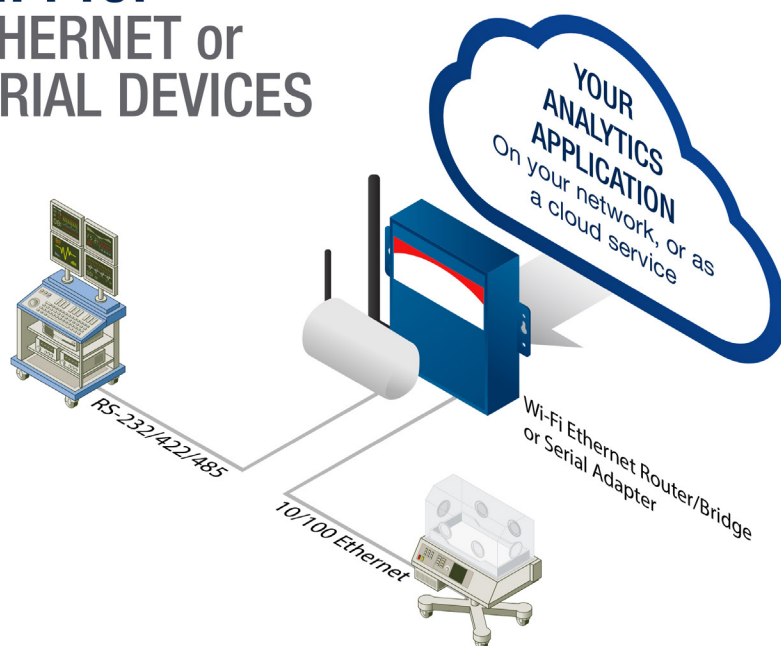


Model ABDN-ER-DP551
Dual Band 802.11a/b/g/n (2.4 GHz, 5 GHz) Ethernet Bridge/Router
- with WPA2-Enterprise, WPA, WEP, EAP Security; AC Power Supply

PRODUCT FEATURES / BENEFITS

- 10/100 Mbps to 802.11a/b/g/n (2.4 GHz, 5 GHz)
- Wide operating temperature range (-20 to +85 °C)
- Compact size (6.3 x 9.9 x 4.7 cm (2.6 x 4.0 x 1.9 in))
- Power unit from AC or USB port
- Advanced Enterprise Class wireless security (WPA2-Enterprise, WPA, WEP, EAP)

WiFi for ETHERNET or SERIAL DEVICES



B+B SMARTWORX

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