

Twhen it Absolutely Must Connect

Wi-Fi 6



Type-A bare-board USB dongle board with Wi-Fi® 6

Instant wireless integration of wired LAN, serial, and USB (RNDIS) interfaces.



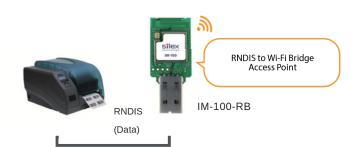
D v e r v i e w

The IM-100-RB is a Wi-Fi lightweight bare-board USB dongle offering plug-and-play Wi-Fi 6. Simply add your enclosure of choice. Using the Type-A USB connection, the IM-100-RB is a rapid development solution for medical device manufacturers to bring a product market quickly without the size or cost of a full boxed networking solution. Its unique RNDIS driver enables immediate wireless connectivity across Windows, Linux, and RTOS platforms.

♣ Features

USB (RNDIS) to Wi-Fi Bridge: IM-100-RB

Connects to a device's USB Type-A port for usage, and enables wireless connectivity for devices without a wired LAN port by utilizing USB (RNDIS).



Remote NDIS (RNDIS)

A technology that allows USB to be used like Ethernet. Some host systems natively support RNDIS drivers, eliminating the need for additional interface driver development.



| Model Numbers | IM-100-RB | | |
|-------------------------------------|---|--|--|
| Wireless LAN Standard | IEEE 802.11 a/b/g/n/ac/ax (1x1) 2.4/5GHz | | |
| Interfaces | USB2.0 (RNDIS) | | |
| Security | WPA™/WPA2™/WPA™3 Enterprise Security (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST) | | |
| Operating Voltage | 5.0V (main power) | | |
| Operating Conditions | Temperature: -40 ~ 85° C; Humidity 15 ~ 95% RH (non-condensing) | | |
| Storage Conditions | Temperature: -40 ~ 90° C; Humidity 10 ~ 95% RH (non-condensing) | | |
| Physical Dimensions | 51.7 x 22.0 x 5.5 mm | | |
| Connector Type | USB Type-A connector | | |
| Wireless Standards Compatability | Japan, USA, Canada, Europe, UK | | |

| | Shape | Sales unit | Packaging |
|--------------|------------|------------|-----------|
| IM-100-RB | USB Type-A | 100 | Bulk |
| IM-100-RB-SP | USB Type-A | 1 | |





Linux

Windows

RTOS

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TCP/IP

NDIS

Remote NDIS

Miniport Remote NDIS **USB Transport** USB Bus Driver USB Controller

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