

SideBridge–RAP

Radio Access Point Communications Module



General Description

The SideBridge-RAP module provides a secure wireless connection to the PRC-117G manpack radio. The RAP (TRL 8) connects directly to the radio and expands communications without the need for any wires. SideBridge-RAP connects the wealth of applications available on an End User Device (EUD) to the tactical radio network. Multiple smartphones, tablets or PC's can connect to a single RAP/radio for efficient data transmission within a vehicle, aircraft or when dismounted.



Features and Benefits

- Secure (Secret and below) wireless communication via Bluetooth, WiFi, UWB (planned) to the PRC-117G manpack radio – no external cabling required
- Up to 5 (BT) users can simultaneously connect to the radio with access to the applications on their EUD for data transmission and situational awareness
- Includes a Glenair USB port for connecting an EUD with a cable
- Mute switch allows the user to turn off the wireless RF transmission
- Rugged, water and shock-proof enclosure with status LEDs
- Functions as WLAN Access Point or WLAN Client
- Meets most of Mobile Access & Campus WLAN Capability Package rqmts. for CSfC



Field Demonstrations

- NATO partners used BLACK RAP at Bold Quest 2019 in ANW2 BLOS config. for JTAC/CAS
- DPSS has used RED RAPs with PRC-117G radios using multiple Samsung KNOX-based EUDs (KILSWITCH/Kouchat apps) at SQT3, SQT4, Island Marauder 2018 for JTAC/CAS
- Integrated RAP, PRC-117G, and THS app at MCTSSA for Agile Bloodhound 2016.
- Demonstrated during 2016 Software Integration Exercise (SIE)



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Applications

- Three configurations: Red-side RAP; Black-side RAP; Red-side RAP w/o wireless
- Remote management/configuration system with SideBridge communicating to any wireless enabled equipment
- User groups can access any application with a smart phone and wirelessly and securely communicate to a tactical radio through the SideBridge module
- Image and video transfer through the tactical radio network via smart phone applications with video compression and store/forward algorithms in development
- Configurable SideBridge-to-radio connection: serial, USB, or custom



Other SideBridge Modules available:

SB-152A; SB-148B; SB-154B, SB-Iridium; SB-Elbit; SB-Kenwood; SB-Icom; SB-Universal

DataSoft specializes in low-power, small form-factor wireless solutions (both hardware and software) for IoT, body area networks, sensor integration, emergency alerting/notification, MANET, and IP-based networking. We design, manufacture, integrate, and support real-time embedded solutions for defense, commercial, and industrial communications. Our portfolio of programmable RF designs, tactical radio accessories, software libraries, Information Security expertise, and rapid prototyping capability was developed through DoD programs, IR&D, and Small Business Innovation Research.

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