

JADAK JDK-1901 VIBE Installation Guide for RFID Modular Approval

For FCC compliance, the label on the final system must include a statement: “Contains FCC ID: 2AAVI-JDK1901”

For IC compliance, the label on the final system must include a statement: “Contains IC ID: 11355A-JDK1901”

The JDK-1901 RFID modular radio should not be installed within a system operating simultaneously with other transmitters.

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by JADAK LLC (the party responsible for compliance) could void the user's authority to operate the equipment.

IC Compliance (Canada)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Installation Instructions

The JADAK JDK-1901 VIBE module is intended for installation in a system that provides the correct mechanical mounting hole pattern, and mating electrical connector that contains power and communication signals. There should be no metallic surfaces placed in front of the antenna (Note: the antenna encircles the optical lens).

The JDK-1901 VIBE module should be installed by authorized and trained service personnel.

Step 1-Install the unit by attaching the mounting ears to the system using appropriate hardware to secure the housing in three locations.

Step 2-attach the JDK-1901 VIBE connector to a mating connector with the following connections:

Pin	Use	Description
1	Ground	VIBE present signal
2	GND	Supply and signal ground
3	RX+	Positive differential receive pin
4	RX-	Negative differential receive pin
5	PWR	Supply voltage input
6	3.3v GPIO	Future use.
7	TX+	Positive differential transmit pin
8	TX-	Negative differential transmit pin

The power supply voltage must be 5.0 VDC +/- 0.250 VDC for proper operation. The maximum operating current is 500 mA and the maximum standby current is 165 mA.

The JDK-1901 VIBE is designed to communicate using a RS485 hybrid bidirectional communication interface. Communication is achieved using a Texas Instrument's SN65176BD differential bus transceiver.

Step 3-Apply power to the host system. Install a plug containing an appropriate HF (13.56 MHz) RFID tag to ensure that the host system reads the tag contents.