

USER GUIDE

NI USB-6211/6218 OEM

This document provides information about the dimensions, mounting options, connectors, and other components of the NI USB-6211/6218 OEM devices.



Caution There are no product safety, electromagnetic compatibility (EMC), or CE marking compliance claims made for the USB-6211/6218 OEM devices. Conformity to any and all compliance requirements rests with the end product supplier.

Figure 1 shows the USB-6211 OEM and USB-6218 OEM devices.

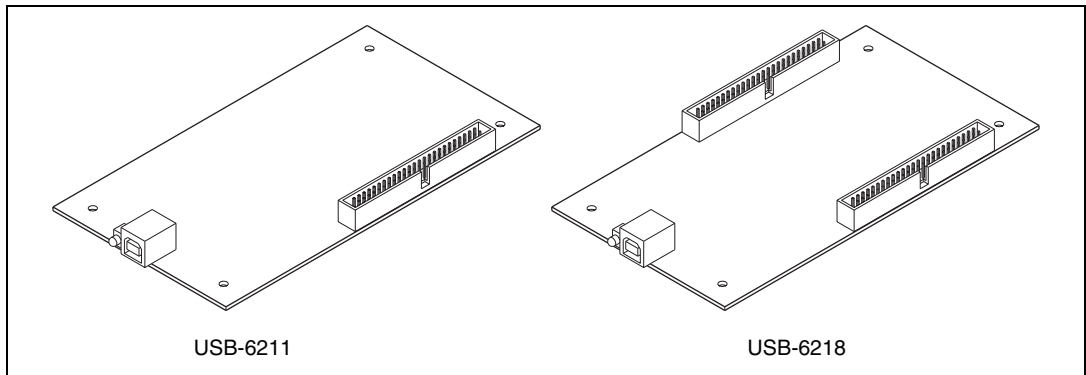


Figure 1. USB-621x OEM Devices

Refer to the *NI USB-621x Specifications* document for USB-6211/6218 specifications and the *NI USB-621x User Manual* for more information about USB-6211/6218 devices. You can find all documentation at ni.com/manuals.

Dimensions

Figure 2 shows the dimensions of the USB-6211 OEM device.

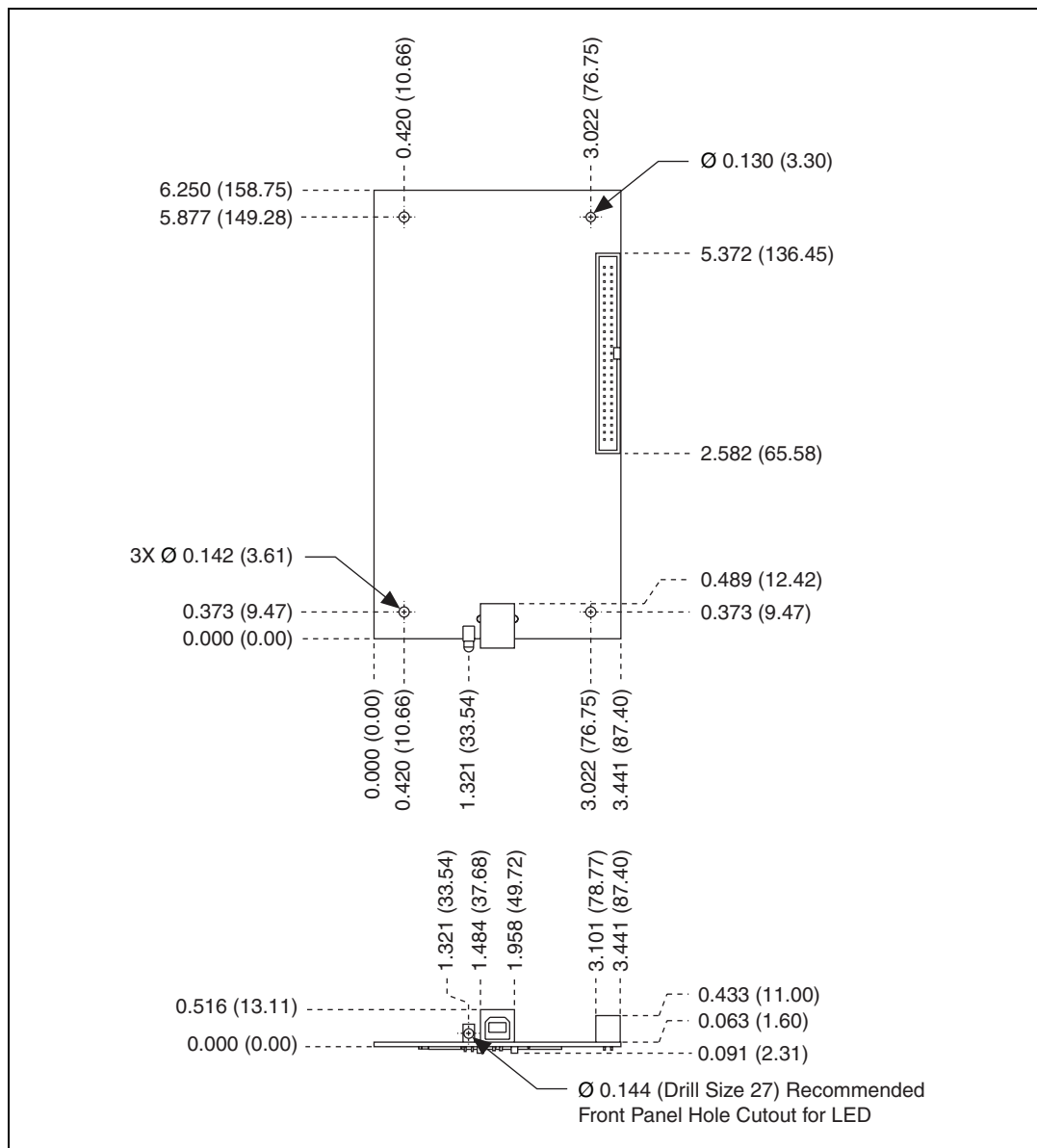


Figure 2. USB-6211 OEM Dimensions in Inches (Millimeters)

Figure 3 shows the dimensions of the USB-6218 OEM device.

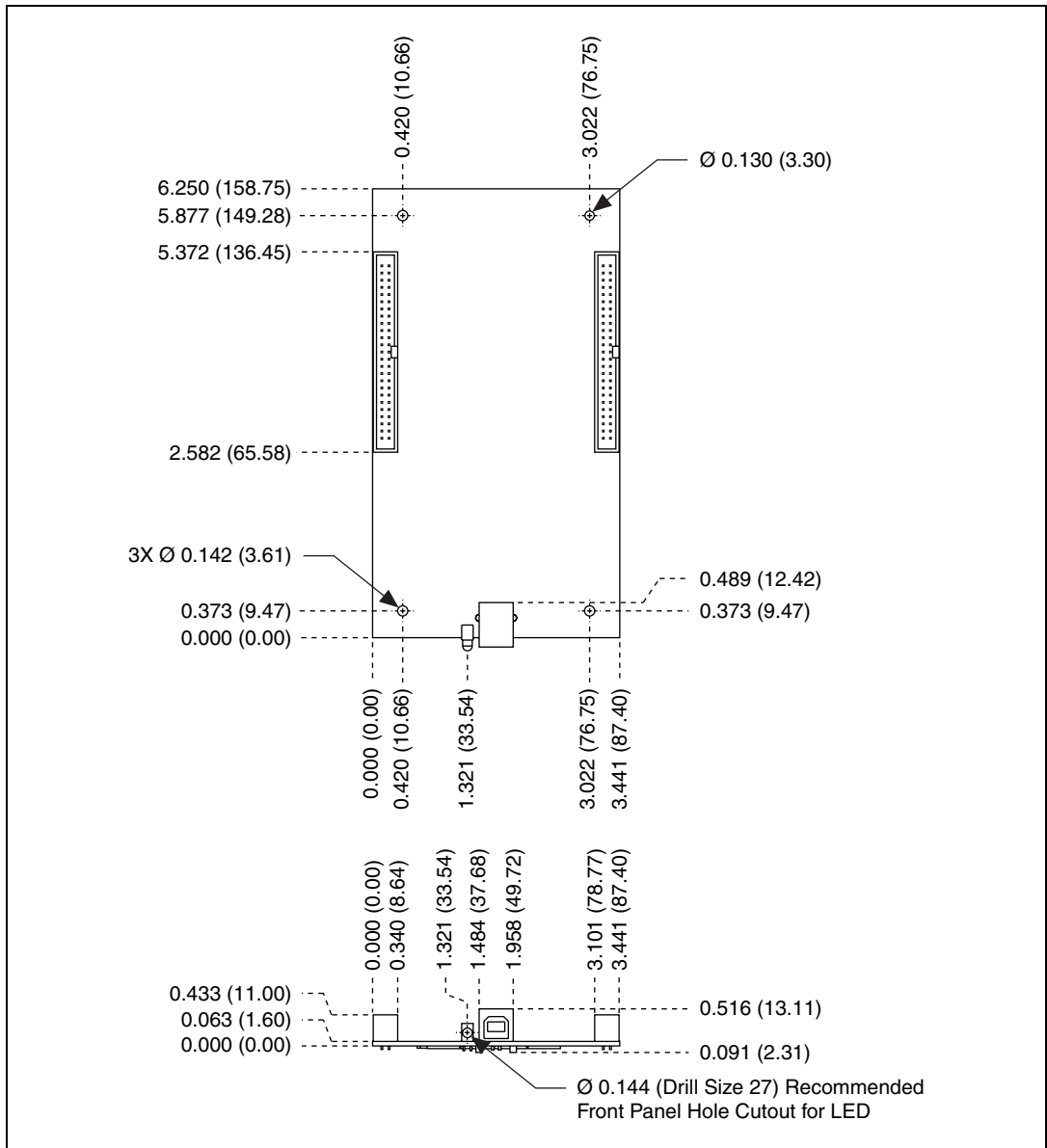


Figure 3. USB-6218 OEM Dimensions in Inches (Millimeters)

I/O Connector Pinouts

Figure 4 shows the connector pinout on the USB-6211 OEM device.

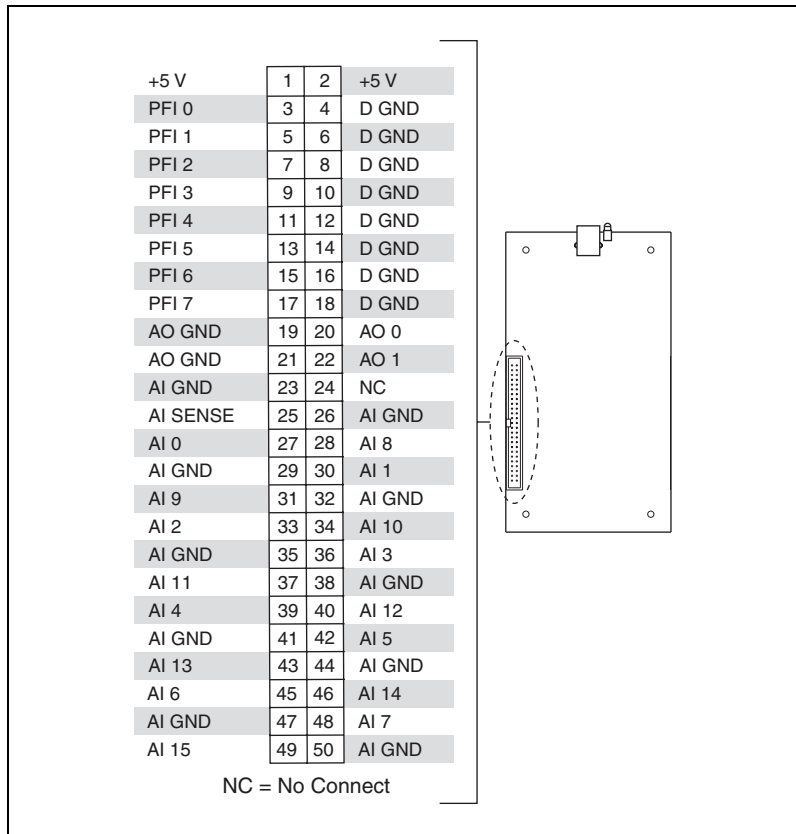


Figure 4. USB-6211 OEM Connector Pinout

Figure 5 shows the connector pinouts on the USB-6218 OEM device.

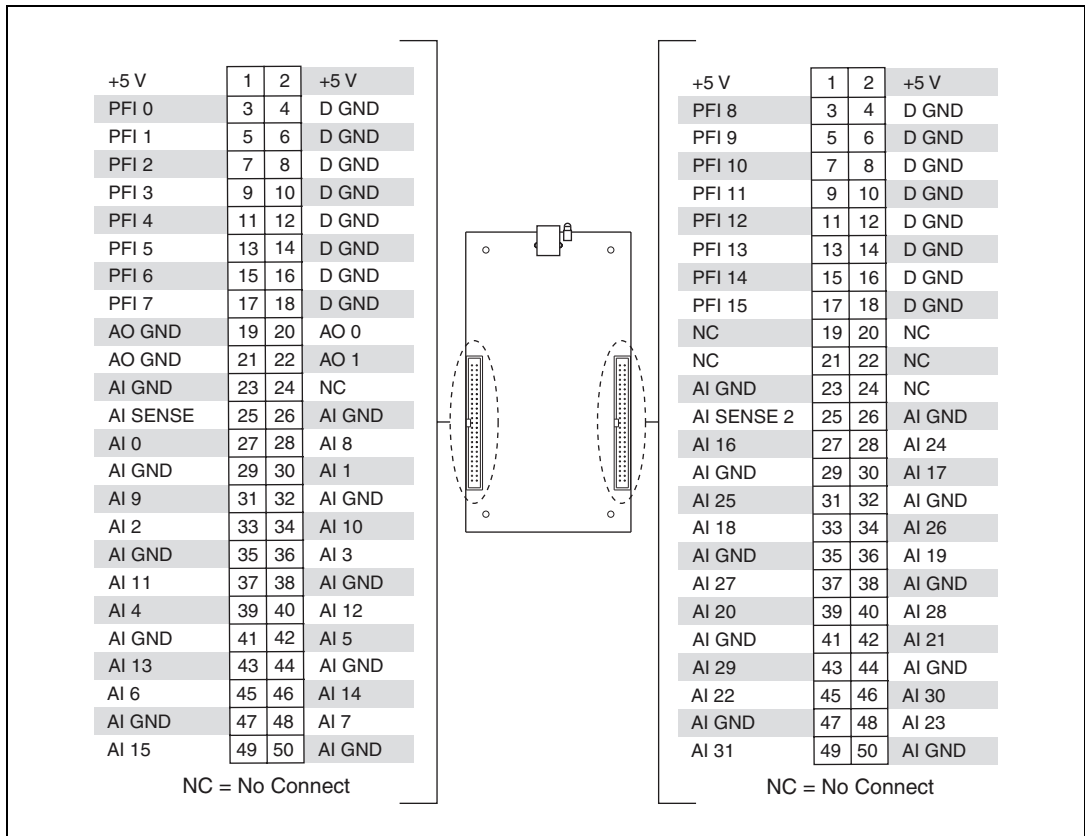


Figure 5. USB-6218 OEM Connector Pinout



Note In non-referenced single-ended (NRSE) mode, the USB-6218 OEM device measures AI <0..15> relative to the AI SENSE input, and AI <16..35> relative to AI SENSE 2.

Refer to the *NI USB-621x User Manual* at ni.com/manuals for more information about USB-6211/6218 signals and how to connect them.

Board Mounting the USB-621x OEM

The USB-621x OEM device can be mounted on a motherboard using the 50-pin connector(s) and board mount socket(s), as shown in Figures 6 and 7.



Note You can use either one or both 50-pin connectors to board mount the USB-6218 OEM device.

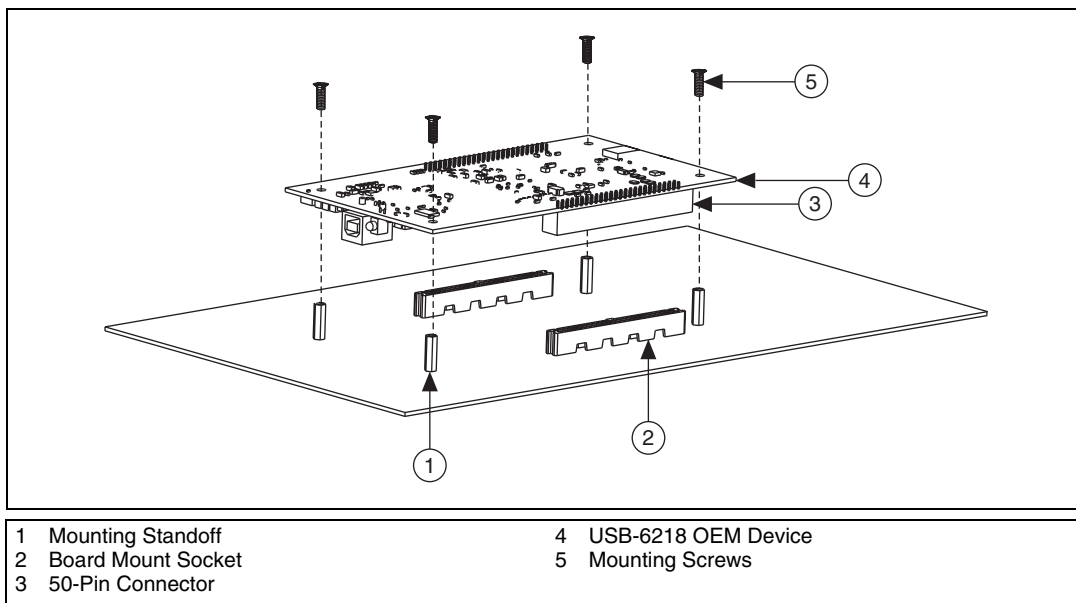


Figure 6. USB-621x OEM Mounting Using 50-Pin Connectors
(USB-6218 OEM Device Shown)

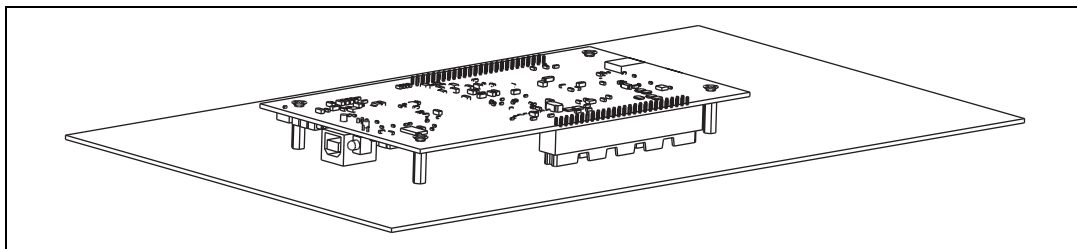


Figure 7. USB-621x OEM Device Installed on Motherboard
(USB-6218 OEM Device Shown)

Refer to the [Device Components](#) section for more information about mounting components.

Device Components

Table 1 contains information about the components used for interfacing and interacting with the USB-621x OEM device.

Table 1. USB-621x OEM Components

Component	Reference Designator(s) on PCB	Manufacturer	Manufacturer Part Number
50-pin connector	J6*, J7	3M	N2550-6002UB
USB connector	J5	AMP	787780-1
50-pin board mount socket†	—	3M	8550-4500PL (or equivalent)
Mounting standoff, using board mount socket	—	RAF Electronic Hardware	M1261-3005-SS‡
Mounting standoff, using ribbon cable	—	RAF Electronic Hardware	2053-440-SS**
* J6 is available on USB-6218 OEM devices only. † You can use either one or both 50-pin connectors to board mount the USB-6218 OEM device. ‡ 3/16 in. HEX female-to-female, 14 mm long. ** 3/16 in. HEX female-to-female, 1/4 in. long.			

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