
TB-4309

Specifications

2025-03-11



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Definitions

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- **Typical** specifications describe the performance met by a majority of models.

Specifications are **Typical** unless otherwise noted.

Related information:

- [PXIe-4309 Specifications](#)

Calibration

Calibration interval	No calibration
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Electrical

Input range	$\pm 0.1\text{ V}$, $\pm 1.0\text{ V}$, $\pm 10\text{ V}$, $\pm 15\text{ V}$
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Physical

Weight	
TB-4309 (ST)	615 g (21.7 oz)
TB-4309 (MT)	483 g (17.0 oz)



Notice Clean the hardware with a soft, nonmetallic brush. Make sure that the hardware is completely dry and free from contaminants before returning it to service.

Mechanical

Screw terminal wire gauge	1.5 mm ² (16 AWG), maximum
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Dimensions

Figure 1. TB-4309 (ST) Terminal Block Dimensions

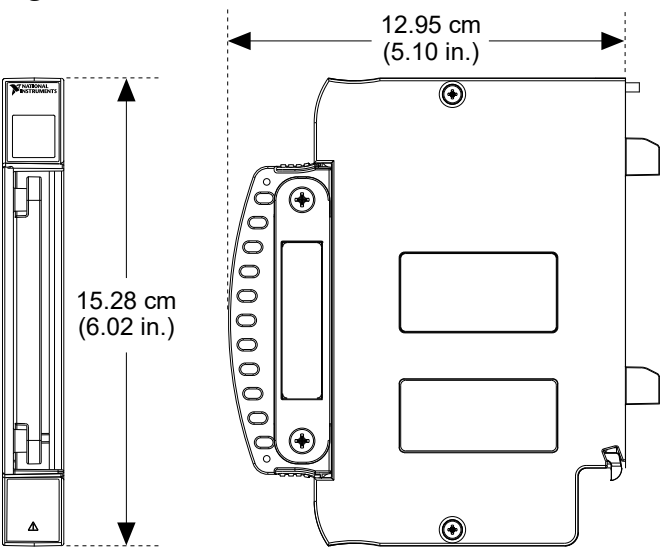
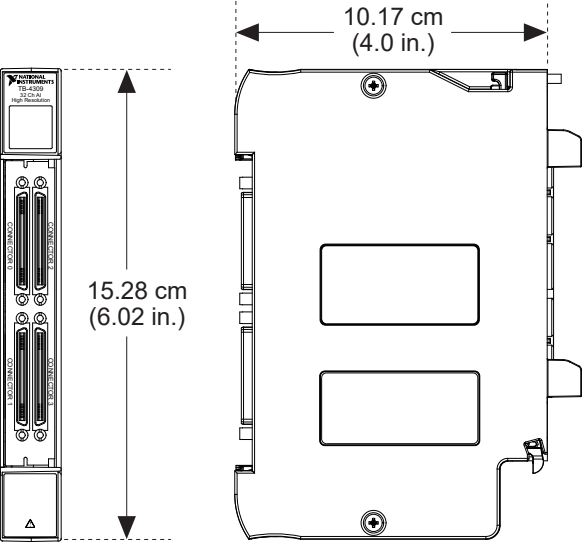


Figure 2. TB-4309 (MT) Terminal Block Dimensions



Environmental

Maximum altitude	2,000 m (800 mbar), at 25 °C ambient temperature
Pollution Degree	2

Indoor use only.

Operating Environment

Ambient temperature range	0 °C to 55 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
Relative humidity range	10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.)

Storage Environment

Ambient temperature range	-40 °C to 71 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)
Relative humidity range	5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-56.)

Shock and Vibration

Operating shock	30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC 60068-2-27. Meets MIL-PRF-28800F Class 2 limits.)	
Random vibration		
Operating	5 Hz to 500 Hz, 0.3 grms	
Non-operating	5 Hz to 500 Hz, 2.4 grms (Tested in accordance with IEC 60068-2-64. Non-operating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)	

TB-4309 Terminal Block Pinouts



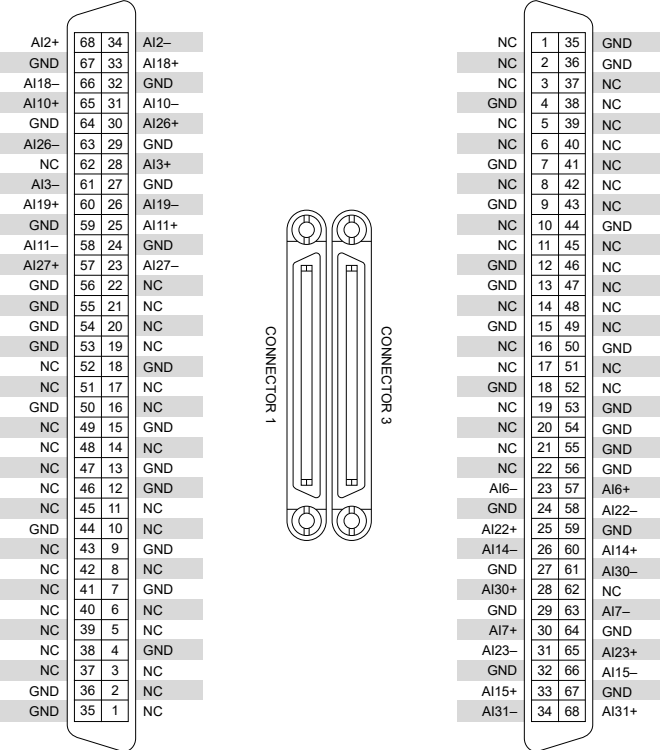
Note Pin descriptions and signal mappings to the PXIe-4309 front panel I/O connectors are listed in ***PXIe-4309 Pinout***.

Figure 3. TB-4309 (ST) Pinouts

Figure 4. TB-4309 (MT) Connector 0 and 2 Pinout

AI0+	68	34	AI0-		NC	1	35	GND
GND	67	33	AI16+		NC	2	36	GND
AI16-	66	32	GND		NC	3	37	NC
AI8+	65	31	AI8-		GND	4	38	NC
GND	64	30	AI24+		NC	5	39	NC
AI24-	63	29	GND		NC	6	40	NC
NC	62	28	AI1+		GND	7	41	NC
AI1-	61	27	GND		NC	8	42	NC
AI17+	60	26	AI17-		GND	9	43	NC
GND	59	25	AI9+		NC	10	44	GND
AI9-	58	24	GND		NC	11	45	NC
AI25+	57	23	AI25-		GND	12	46	NC
GND	56	22	REF+		GND	13	47	NC
GND	55	21	REF-		NC	14	48	NC
GND	54	20	NC		GND	15	49	NC
GND	53	19	NC		NC	16	50	GND
NC	52	18	GND		NC	17	51	NC
NC	51	17	NC		GND	18	52	NC
GND	50	16	NC		NC	19	53	GND
NC	49	15	GND		NC	20	54	GND
NC	48	14	NC		NC	21	55	GND
NC	47	13	GND		NC	22	56	GND
NC	46	12	GND		AI4-	23	57	AI4+
NC	45	11	PF10		GND	24	58	AI20-
PF1	44	10	PF11		AI20+	25	59	GND
NC	43	9	GND		AI12-	26	60	AI12+
NC	42	8	NC		GND	27	61	AI28-
NC	41	7	GND		AI28+	28	62	NC
NC	40	6	NC		GND	29	63	AI5-
NC	39	5	NC		AI5+	30	64	GND
NC	38	4	GND		AI21-	31	65	AI21+
NC	37	3	NC		GND	32	66	AI13-
GND	36	2	NC		AI13+	33	67	GND
GND	35	1	NC		AI29-	34	68	AI29+

Figure 5. TB-4309 (MT) Connector 1 and 3 Pinout



Related information:

- [PXIe-4309 Pinout](#)