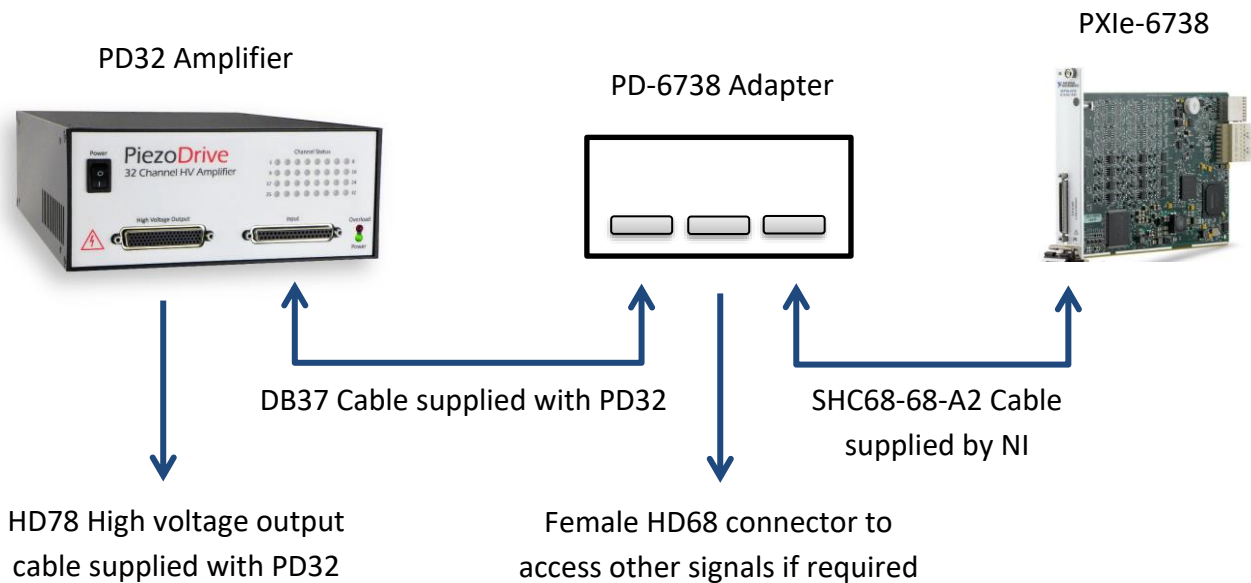


## PD-6738 Adaptor for connecting the PD32 to PXIe-6738, PCIe-6738, PXIe-6739, PCIe-6739

### Specifications

This adaptor maps the analog outputs from the National Instruments PXIe-6738 or PCIe-6738 DAC cards to a DB37 connector compatible with the PiezoDrive PD32. Two PD-6738 adaptors can also be used to connect two PD32 amplifiers to a PXIe-6739 or PCIe-6739 card.

Two digital outputs are mapped to the amplifier shutdown command and overload sensor. An overview of the connections is shown below.



The adaptor is contained in a compact desktop enclosure which can be mounted in a side-by-side arrangement with a second adaptor or the PD32 amplifier. A single amplifier or adaptor can be mounted with the PD32-Rack1 kit. Two adaptors, amplifiers, or a combination of both can be mounted side-by-side with the PD32-Rack2 kit.

# Connectivity

PXIe/PXIe-6723	PD32
Analog outputs A0 to A31	Inputs 1 to 32
Digital output P0.1	Disable Pin (36)
Digital input P0.0	Overload Detection (37)

AGND	68	34	A31
A30	67	33	AGND
A29	66	32	A28
AGND	65	31	A27
A26	64	30	AGND
A25	63	29	A24
AGND	62	28	A23
A22	61	27	AGND
A21	60	26	A20
AGND	59	25	A19
A18	58	24	AGND
A17	57	23	A16
	56	22	A15
AGND	55	21	A14
A13	54	20	AGND
A12	53	19	
A11	52	18	AGND
A10	51	17	A9
AGND	50	16	A8
AGND	49	15	A7
A6	48	14	AGND
A5	47	13	A4
AGND	46	12	A3
A2	45	11	AGND
A1	44	10	A0
	43	9	PFI7
G PFI6/7	42	8	PFI6
G PFI4/5	41	7	PFI5
PFI4	40	6	PFI3
G PFI2/3	39	5	PFI2
PFI1	38	4	PFI0
G PFI0/1	37	3	P0.1
DGND P0	36	2	P0.0
	35	1	+5V



PD32 Signals

PXIe/PCIe-6738 Signals