

Terminal Board & Cable Selection Guide for DAQ

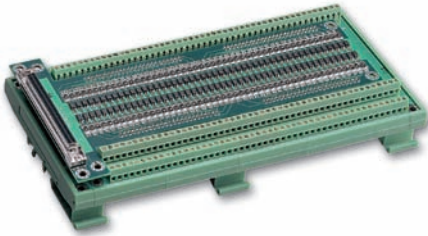
Type	DAQ (Data Acquisition Card)		Terminal Board		Mating Cable	Terminal Board Connector Type
	Model Name	Page No.	Model Name	Page No.		
High-Performance DAQ	DAQ/DAQe/PXI-2000	1-7	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	DAQ/DAQe/PXI-2200	1-11	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	DAQ/DAQe/PXI-2208	1-9	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	DAQ/DAQe-2213	1-15	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	DAQ/DAQe-2214	1-15	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	DAQ/DAQe/PXI-2500	1-13	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	PCI-9221	1-5	TB-9221-01	12-8	ACL-10137-1MM	37-pin, D-sub, Female
General-Purpose DAQ	PCI-9222, PCI-9223	1-5	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
	cPCI-9112/R	1-19	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	cPCI-9116 Series	1-24	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	LPCI-9112	1-19	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
	PCI-9111 Series, PCI-9112	1-21	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
			ACLD-9137-01	12-8	ACL-10137-1MF	37-pin, D-sub, Male
			DIN-20P-01	12-7	ACL-10120-1	20-pin, Header
			ACLD-9188-01	12-8	ACL-10120-1	20-pin, Header
			ACLD-9182A-01	12-4	ACL-10120-1	20-pin, Header
	PCI-9113A	1-23	ACLD-9185-01	12-4	ACL-10120-1	20-pin, Header
			DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
	PCI-9114 Series	1-18	ACLD-9137-01	12-8	ACL-10137-1MF	37-pin, D-sub, Male
			DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
			ACLD-9137-01	12-8	ACL-10137-1MF	37-pin D-sub, Male
			DIN-20P-01	12-7	ACL-10120-1	20-pin, Header
PCI-9118/L Series	1-22	ACLD-9188-01	12-8	ACL-10120-1	20-pin, Header	
PCI-6202	1-26	DIN-50S-01	12-7	ACL-10250-1	50-pin, SCSI-II, Female	
Analog Output	PCI/PCIe/cPCI-6208, PCI/PCIe/cPCI-6216	1-26	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female
		1-27	ACLD-9137-01	12-8	ACL-10137-1MF	37-pin, D-sub, Female
	1-27	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Male	
PCI-6308, PCI-6308A	1-25	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female	
		ACLD-9137-01	12-8	ACL-10137-1MF	37-pin, D-sub, Male	
High-Speed DIO	cPCI-7200	1-35	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	PCI-7200	1-35	ACLD-9137-01	12-8	ACL-10137-1MF	37-pin, D-sub, Female
			DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
	ACLD-9137F-01	12-8	ACL-10137-1MM	37-pin, D-sub, Female		
Digital I/O	PCI/PCIe-7300A, cPCI-7300	1-33	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	PCIe-7350	1-31	DIN-68H-01	12-7	ACL-10279	68-pin, SCSI-VHDCI
	cPCI-7248, cPCI-7249R	1-48	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	cPCI-7252	1-37	DIN-50S-01	12-7	ACL-10250-1	50-pin, SCSI-II, Female
	cPCI/PCI-7432, 7433, 7434	1-43	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	cPCI-7452	1-49	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
	PCI-7230, PCI-7233, PCI-7234(P)	1-45	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
	LPCI/LPCIe/cPCI-7230	1-45	DIN-50S-01	12-7	ACL-10250-1	50-pin, SCSI-II, Female
	PCI-7250, PCI-7251	1-37	DIN-37D-01	12-7	ACL-10137-1MM	37-pin, D-sub, Female
	LPCI/LPCIe-7250	1-37	DIN-50S-01	12-7	ACL-10250-1	50-pin, SCSI-II, Female
	PCI-7256	1-39	DIN-68S-01	12-7	ACL-10569-1	68-pin, SCSI-II, Female
	PCI-7258	1-40	DIN-68S-01	12-7	ACL-10569-1	68-pin, SCSI-II, Female
	PCI-7260	1-36	--	--	ACL-10337 (for JP2/JP3)	--
	PCI-7224, PCI-7248, PCI-7296	1-47	TB-24R-01	12-5	ACL-10150	50-pin, Header
			TB-24P-01	12-5	ACL-10150	50-pin, Header
			TB-16P8R-01	12-6	ACL-10150	50-pin, Header
			DIN-24R-01	12-5	ACL-10150	50-pin, Header
DIN-24P-01			12-5	ACL-10150	50-pin, Header	
DIN-100S-01			12-7	ACL-102100-1	100-pin, SCSI-II, Female	
PCI-7348, PCI-7396	1-51	DIN-96DI-01	12-3	ACL-102100-1	100-pin, SCSI-II, Female	
		DIN-96DO-01	12-3	ACL-102100-1	100-pin, SCSI-II, Female	
		DIN-68S-01	12-7	ACL-10568D, ACL-10568F	68-pin, SCSI-II, Female	
Timer/Counter	PCI/cPCI-8554	1-52	DIN-100S-01	12-7	ACL-102100-1	100-pin, SCSI-II, Female
Signal-Conditioning DAQ	PCI-9524	1-17	DIN-68S-01	12-7	ACL-10568-1	68-pin, SCSI-II, Female

Cable		Terminal Board									
		ACL-10120-1, ACL-10220-1	ACL-10568-1 (male/male)	ACL-10250-1 (male/male)	ACL-10279 (male/male)	ACL-102100-1 (male/male)	ACL-10137-1MM (male/male)	ACL-10137-1MF (male/female)	ACL-10150 (female/female)	ACL-10237-1 (male/male)	ACL-10262 (male/female)
Cable Connector Type		20-pin Flat Cable	68-pin SCSI-VHDCI to SCSI-II	50-pin SCSI-II	68-pin SCSI-VHDCI 50 Ω Impedance	100-pin SCSI-II	37-pin D-sub	37-pin D-sub	50-pin Flat Cable	37-pin D-sub	62-pin D-sub
Terminal Board Options	Model Name	Page No.	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9	12-9
	ACLD-9137-01	12-8							●		
	ACLD-9137F-01	12-8						●			
	ACLD-9138-01	12-8						●		●	
	ACLD-9182A-01	12-4	●								
	ACLD-9185-01	12-4	●								
	ACLD-9188-01	12-8	●								
	ACLD-9881-01	12-7						●			
	DIN-20P-01	12-7	●								
	DIN-24P-01	12-5							●		
	DIN-24R-01	12-5							●		
	DIN-37D-01	12-7						●			
	DIN-50P-01	12-7							●		
	DIN-50S-01	12-7			● ⁽¹⁾						
	DIN-68S-01	12-7		● ⁽²⁾⁽³⁾							
	DIN-68H-01	12-7				●					
	DIN-96DI-01	12-3					●				
	DIN-96DO-01	12-3					●				
	DIN-100S-01	12-7					● ⁽⁴⁾				
	TB-16P8R-01	12-6							●		
	TB-24P-01	12-5							●		
	TB-24R-01	12-5							●		
TB-6201-01	12-8									●	
TB-6221-01	12-8									●	
TB-6231-01	12-8									●	
TB-9221-01	12-8						●				

Note:
 (1) For PCI-7348/PCI-7396 users, please use the ACL-10253 (male/male), 100-pin to two 50-pin cables.
 (2) For PCI-7442/PCI-7443/PCI-7444 users, please use the ACL-10568D/ACL-10568F (male/male), 68-pin SCSI-VHDCI cables.
 (3) For PCI-7256/PCI-7258 users, please use the ACL-10569 (male/male), 68-pin SCSI-II cable.
 (4) For cPCI-7452 users, please use the ACL-102150 (male/male), SCSI-100 to MINI SCSI-100 cable.

DIN-96DI-01

96-CH Isolated DI Terminal Board with DIN-Rail Mounting



Features

- 96-CH isolated digital inputs
- For use with PCI-7396
- Isolated input voltage up to 24 V
- 2500 V_{RMS} optical isolation
- Screw terminals for easy field wiring

Specifications

- Number of Channels: 96
- Maximum Input Range: 24 V
- Digital Logic Levels
 - ◆ 0 to 24 V non-polarity
 - ◆ Input high voltage: 10 V to 24 V
 - ◆ Input low voltage: 0 to 24 V
- Input Resistance: 4.7 kΩ @ 0.5 W
- Isolation Voltage: 2500 V_{RMS}
- I/O Connector: 100-pin SCSI-II female
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

+5 V
48 mA maximum

- Dimensions: 226 mm x 121 mm x 48 mm (W x L x H)

Ordering Information

- **DIN-96DI-01**
96-CH isolated DI terminal board with DIN-rail mounting

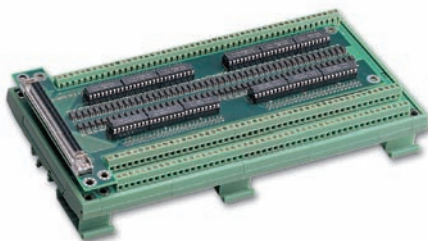
Accessory

- Cabling
ACL-102100-I: 100-pin SCSI-II cable, 1 M

Contact your sales representative for cable length options.

DIN-96DO-01

96-CH Isolated DO Terminal Board with DIN-Rail Mounting



Features

- 96-CH isolated digital outputs
- For use with PCI-7396
- Sink current up to 500 mA on each isolated output
- 2500 V_{RMS} optical isolation
- Screw terminals for easy field wiring

Specifications

- Number of Channels: 96
- Output Type: open collector Darlington transistor
- Sink Current
 - Max. 500 mA for only one Darlington pair
 - 500 mA for all Darlington pair @ 20% duty
- Power Dissipation: Max. 2.25 W per chip (8 DO channels)
- Supply Voltage: 5 V_{Dc} to 35 V_{Dc}
- Isolation Voltage: 2500 V_{RMS}
- I/O Connector: 100-pin SCSI-II female
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

+5 V
102 mA maximum

- Dimensions: 226 mm x 121 mm x 48 mm (W x L x H)

Ordering Information

- **DIN-96DO-01**
96-CH isolated DO terminal board with DIN-rail mounting

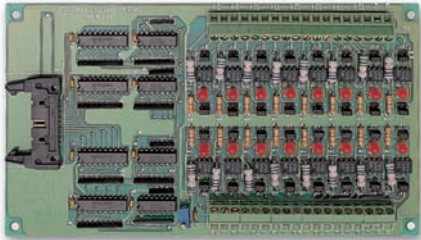
Accessory

- Cabling
ACL-102100-I: 100-pin SCSI-II cable, 1 M

Contact your sales representative for cable length options.

ACLD-9182A-01

Terminal Board with 16-CH Isolated Digital Inputs



Specifications

- Isolated Digital Input
 - Number of Channels: 16
 - Maximum Input Range: 24 V, non-polarity
 - Digital Logic Levels
 - ◆ 0 to 24 V, non-polarity
 - * Input High Voltage: 5 to 24 V
 - * Input Low Voltage: 0 to 0.7 V
 - ◆ Input Resistance: 560 Ω @ 1 W
 - ◆ Isolation Voltage: 2500 V_{RMS}
- I/O Connector: 20-pin ribbon male
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Dimensions: 205 mm x 114 mm

Features

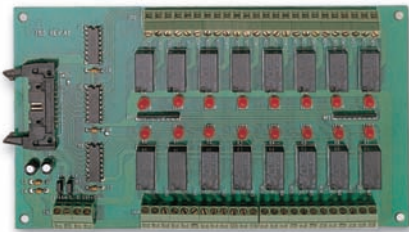
- 16-CH opto-isolated digital inputs
- For use with 20-pin ribbon digital input connector of NuDAQ cards
- Non-polarity digital input range
- Isolated input voltage up to 24 V
- 5000 V_{RMS} optical isolation
- Jumper configurable for voltage input or dry-contact input mode
- LED indicator for input status
- Screw terminals for easy field wiring

Ordering Information

- **ACLD-9182A-01**
Terminal board with 16-CH isolated digital inputs
 - **Accessories**
 - Cabling
 - ACL-10120-1: 20-pin flat cable, 1 M
 - ACL-10220-1: 20-pin shielded and grounded cable, 1 M
- Contact your sales representative for cable length options.

ACLD-9185-01

Terminal Board with 16-CH Relay Outputs



Specifications

- Relay Output
 - Number of Channels: 16
 - Relay Type: SPDT (Form C)
 - Isolation Voltage: 1500 V_{RMS}
 - Contact Rating
 - ◆ AC: 120 V @ 0.5 A
 - ◆ DC: 24 V @ 1 A
 - Breakdown Voltage: 1000 V_{RMS}
 - Contact Resistance: 100 mΩ
 - Relay ON/OFF time
 - ◆ Operate Time: 6 ms
 - ◆ Release Time: 3 ms
 - LED Indicators for Relay Status: one per channel
 - Expected Life:
 - ◆ > 5 x 10⁵ operations @ 1 A, 24 Vdc
 - ◆ > 2 x 10⁵ operations @ 0.5 A, 120 VAc
- I/O Connector: 20-pin ribbon male
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

+5 V	+12 V
200 mA maximum	528 mA maximum
- Dimensions: 205 mm x 114 mm

Features

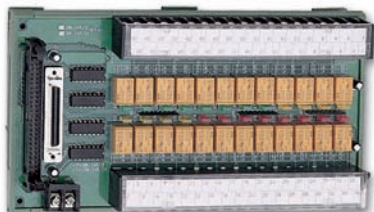
- 16-CH single-pole, double-throw (SPDT form C) relay outputs
- For use with 20-pin digital input connector of NuDAQ cards
- Maximum switching voltage up to 60 Vdc/120 Vac
- Maximum switching current up to 1 Adc/ac
- Onboard relay driver circuitry
- LED indicators for relay status
- Screw terminals for easy field wiring

Ordering Information

- **DIN-96DO-01**
96-CH isolated DO terminal board with DIN-rail mounting
 - **Accessory**
 - Cabling
 - ACL-102100-1: 100-p in SCSI-II cable, 1 M
- Contact your sales representative for cable length options.

DIN-24R-01, TB-24R-01

Terminal Boards with 24-CH Relay Outputs



Features

- 24-CH single-pole, double-throw (SPDT form C) relay outputs
- 50-pin Opto-22 compatible connector
- Maximum switching voltage 220 V_{DC}/250 V_{AC}
- Maximum switching current up to 2 A_{DC/AC}
- LED indicator for relay status
- Onboard relay driver circuitry
- Screw terminals for easy field wiring
- DIN socket available on DIN-24R-01
- 50-pin SCSI-type connector available on DIN-24R-01 to interface with ND-6058

Specifications

- Relay Output
 - Number of channels: 24
 - Relay Type: SPDT (Form C)
- Contact Rating
 - AC: 125 V @ 0.6 A
 - DC: 30 V @ 2 A
- Breakdown Voltage: 1500 V_{RMS}
- Contact Resistance: 50 mΩ
- Relay ON/OFF Time
 - Operate time: 3 ms
 - Release time: 3 ms
- LED Indicators for Relay Status: per channel
- Expected Life: 5 × 10⁵ operations @ 2 A, 30 V_{DC}
- External Coil Excitation Voltage:
 - 12 V nominal, 19.2 V maximum (TB-24R/12-01 & DIN-24R/12-01)
 - 24 V nominal, 38.5 V maximum (TB-24R/24-01 & DIN-24R/24-01)

- I/O Connector
 - 50-pin ribbon male
 - 50-pin SCSI-II female
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Consumption:

	+12 V	+24 V
TB-24R/12-01 DIN-24R/12-01	288 mA maximum	-
TB-24R/24-01 DIN-24R/24-01	-	44 mA maximum

- Dimensions
 - TB-24R-01: 220 mm × 132 mm × 15 mm (W × L × H)
 - DIN-24R-01: 203 mm × 120 mm × 55 mm (W × L × H)

Ordering Information

- **TB-24R/12-01**
Terminal board with 24-CH relay outputs @ 12 V coil voltage
- **TB-24R/24-01**
Terminal board with 24-CH relay outputs @ 24 V coil voltage
- **DIN-24R/12-01**
Terminal board with 24-CH relay outputs @ 12 V coil voltage and DIN-rail mounting
- **DIN-24R/24-01**
Terminal board with 24-CH relay outputs @ 24 V coil voltage and DIN-rail mounting
- **Accessory**
 - Cabling
ACL-10150-: 50-pin flat cable

Contact your sales representative for cable length options.

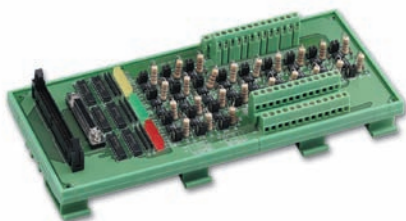
Introduction

The DIN-24R-01 and TB-24R-01 relay output boards are designed for industrial control applications. It contains 24 electro-mechanical SPDT relays that can be driven by the 24-bit digital output ports of the PCI-7224, PCI-7248, PCI-7296, ACL-7112, ACL-7124, PET-48DIO, and ND-6058.

Each relay's switching capacity is 60 W, 125 V_{AC}. The normally closed, and common contacts for each relay are made available for maximum flexibility.

DIN-24P-01, TB-24P-01

Terminal Boards with 24-CH Opto-Isolated Digital Inputs



Features

- 24-CH opto-isolated digital inputs
- 50-pin opto-22 compatible connector
- Non-polarity digital input range
- Isolated input voltage up to 24 V
- 5000 V_{RMS} optical isolation
- Jumper configurable for voltage input or dry-contact input mode
- LED indicator for input status
- Screw terminals for easy field wiring
- DIN socket is available on DIN-24P-01
- 50-pin SCSI-type connector available on DIN-24P-01 to interface with ND-6058

Specifications

- Input Modes
 - Voltage input
 - Dry contact input
- Isolated Digital Input
 - Number of channels: 24, maximum
 - Maximum input range: 24 V, non-polarity
 - Digital logic levels
 - 0 to 24 V, non-polarity
 - * Input high voltage: 5 V to 24 V
 - * Input low voltage: 0 to +1.5 V
 - Input resistance: 1.2 kΩ @ 0.5 V
 - Isolation voltage: 5000 V_{RMS}
- Dry Contact Input
 - Number of channels: 24
 - Internal pull-up voltage supply: +5 V_{DC}
- LED Indicators for Input Status: one per channel

- I/O Connector
 - 50-pin ribbon male
 - 50-pin SCSI-II female
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Requirement:

+5 V
40 mA maximum

- Dimensions
 - TB-24P-01: 220 mm × 132 mm × 23 mm (W × L × H)
 - DIN-24P-01: 259 mm × 121 mm × 55 mm (W × L × H)

Ordering Information

- **TB-24P/24-01**
Terminal Board with 24-CH isolated digital inputs
- **DIN-24P/24-01**
Terminal Board with 24-CH isolated digital inputs and DIN-rail mounting
- **Accessory**
 - Cabling
ACL-10150: 50-pin flat cable

Contact your sales representative for cable length options.

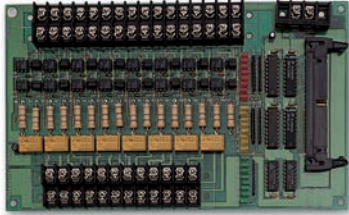
Introduction

The DIN-24P-01 and TB-24P-01 digital input terminal boards feature high-voltage optoisolation on all input channels.

They provide 24 channels that are accessed through a single 50-pin connector that is standard on the NuDAQ digital I/O boards, including ACL-7122, ACL-7124, PET-48DIO, PCI-7224, PCI-7248, PCI-7296 and ND-6058. Each channel's input mode is configurable via jumper settings.

TB-16P8R-01

Terminal Board with 16-CH Isolated DI & 8-CH Relay Outputs



Specifications

- Number of Isolated DI Channels: 16
- Number of Relay Output Channels: 8
- LED Indicators for Input and Output Status: one per channel
- Electronics Characteristics of Isolated DI: refer to the TB-24P-01's specifications
- Electronics Characteristics of Relay Outputs: refer to the TB-24R-01's specifications
- I/O Connector: 50-pin ribbon male
- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 5% to 95%, non-condensing
- Power Requirements:

+5 V	+12 V
40 mA maximum	100 mA maximum

- Dimensions: 220 mm x 132 mm x 22 mm (W x L x H)

Ordering Information

■ TB-16P8R/12-01

Terminal board with 16-CH isolated DI & 8-CH relay outputs

■ TB-16P8R/24-01

Terminal board with 16-CH isolated DI & 8-CH relay outputs

■ Accessory

- Mating Cable
ACL-10150: 50-pin flat cable

Contact your sales representative for cable length options.

Features

- 16-CH isolated digital inputs
- Non-polarity digital input range
- Isolated input voltage up to 24 V
- 5000 VRMS optical isolation
- Jumper configurable for voltage input or dry contact input mode
- 8-CH single-pole double-throw (SPDT form C) relays
- Maximum switching voltage 220 Vdc/250 VAc
- Maximum switching current up to 2 Adc/AC
- Onboard relay driver circuitry
- LED indicators for both input and relay status
- Screw terminals for easy field wiring

3U to 6U PXI/CompactPCI Adapter



Introduction

Order additional adapter kits to convert 3U PXI/CompactPCI cards to 6U size to fit in with 6U PXI/CompactPCI systems.

Ordering Information

■ SCSI-100/6U Panel w/FRP

6U adapter for 3U DAQ/DIO PXI/CompactPCI cards with 100-pin SCSI-II connector

- Compliant with cPCI-91 16 series, cPCI-91 12 series, cPCI-7300, cPCI-7200, cPCI-7432/7433/7434, cPCI-7248/7249R, and cPCI-8554 series

■ DB-37/62 6U Panel w/FRP

6U adapter for 3U DAQ/DIO PXI/CompactPCI cards with 37-pin/62-pin D-Sub connector

- Compliant with cPCI-6208/6216 series, cPCI-7230, and cPCI-7252

■ PXI-20XX/25XX 6U/Panel

6U adapter for 3U PXI-20XX/25XX cards with single 68-pin SCSI-VHDCI connector

- Compliant with PXI-2000 series, and PXI-2500 series

■ PXI-22XX 6U/Panel w/FRP

6U adapter for 3U PXI-22XX cards with dual 68-pin SCSI-VHDCI connectors

- Compliant with PXI-2200 series, and PXI-2208

General Purpose Terminal Board

DIN Rail Screw Terminal Boards

- Universal screw terminal boards for easy wiring
- DIN socket for easy mounting in DIN-rail

DIN-100S-01



Terminal Board with One 100-pin SCSI-II Connector and DIN-rail Mounting

- On-board Connector Type: 100-pin SCSI-II female
- Dimensions: 158 mm x 120 mm x 52 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-102100-1: 100-pin SCSI-II cable, 1 M

DIN-68S-01



Terminal Board with One 68-pin SCSI-II Connector and DIN-rail Mounting

- On-board Connector Type: 68-pin SCSI-II female
- Dimensions: 103 mm x 85 mm x 43 mm (W x L x H)
- Mating Cables:
 - ♦ ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
 - ♦ ACL-10569-1: 68-pin SCSI-II cable, 1 M

DIN-50S-01



Terminal Board with One 50-pin SCSI-II Connector and DIN-rail Mounting

- On-board Connector Type: 50-pin SCSI-II female
- Plastic cover for protection of wiring
- Dimensions: 125 mm x 85 mm x 50 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-10250-1: 50-pin SCSI-II cable, 1 M

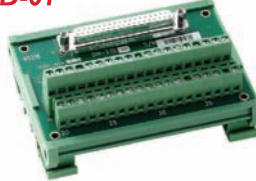
DIN-50P-01



Terminal Board with One 50-pin Header and DIN-rail mounting

- On-board Connector Type: 50-pin header
- Dimensions: 103 mm x 85 mm x 43 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-10150: 50-pin flat cable

DIN-37D-01



Terminal Board with One 37-pin D-sub Connector and DIN-rail Mounting

- On-board Connector Type: 37-pin D-sub female
- Dimensions: 113 mm x 85 mm x 52 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-10137-1MM: 37-pin D-sub male/male cable, 1 M

DIN-20P-01



Terminal Board with One 20-pin Header and DIN-rail Mounting

- On-board Connector Type: 20-pin header
- Dimensions: 68 mm x 85 mm x 55 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-10120-1: 20-pin flat cable, 1 M

DIN-68H-01



Terminal Board with One 68-pin SCSI-VHDCI Connector and 0 or 50 Ω Jumper Selectable Impedance

- On-board Connector Type: 68-pin SCSI-VHDCI
- Dimensions: 103 mm x 85 mm x 43 mm (W x L x H)
- Mating Cable:
 - ♦ ACL-10279: 68-pin SCSI-VHDCI cable with 50 Ω impedance

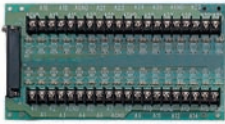
Ordering Information

■ DIN-100S-01	Terminal board with one 100-pin SCSI-II connector and DIN-rail mounting
■ DIN-68S-01	Terminal board with one 68-pin SCSI-II connector and DIN-rail mounting
■ DIN-50S-01	Terminal board with one 50-pin SCSI-II connector and DIN-rail mounting
■ DIN-50P-01	Terminal board with one 50-pin header and DIN-rail mounting
■ DIN-37D-01	Terminal board with one 37-pin D-sub connector and DIN-rail mounting
■ DIN-20P-01	Terminal board with one 20-pin header and DIN-rail mounting
■ DIN-68H-01	Terminal board with one 68-pin SCSI-VHDCI connector and 0 or 50 Ω jumper selectable impedance

ACLD Screw Terminal Boards

- Low-cost universal screw terminal boards
- Blank pads accommodate applications such as break detection, low-pass filter, current shunt and voltage attenuator on ACLD-9881-01, ACLD-9188-01, and ACLD-9138-01
- Table-top mounting using nylon standoffs

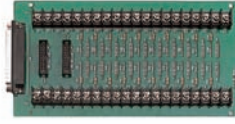
ACLD-9881-01



General Purpose Terminal Board with One 37-pin D-sub Connector for PCI-9113A and ACL-8113A

- For use with PCI-9113A and ACL-8113
- On-board Connector Type: 37-pin D-sub female
- Reliable screw clamp termination blocks
- Dimensions: 222 mm x 105 mm
- Mating Cable:
 - ♦ ACL-10137-1MM: 37-pin D-sub male/male cable, 1 M

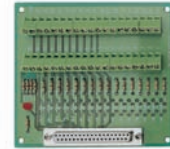
ACLD-9188-01



General Purpose Terminal Board with Two Connector Options: Two 20-pin Headers or One 37-pin D-sub Connector

- On-board Connector Options: Two 20-pin male headers or one 37-pin D-sub female
- Reliable screw clamp terminal blocks
- Dimensions: 222 mm x 114 mm
- Mating Cables:
 - ♦ ACL-10120-1: 20-pin flat cable, 1 M
 - ♦ ACL-10220-1: 20-pin shielded & grounded cable, 1 M

ACLD-9138-01



General Purpose Terminal Board with One 37-pin D-sub Connector

- On-board Connector Type: 37-pin D-sub female
- Blank RC circuits for analog input boards
- Reliable screw clamp terminal blocks
- Dimensions: 103 mm x 114 mm
- Mating Cables:
 - ♦ ACL-10237-1: 37-pin D-sub male/male flat cable, 1 M
 - ♦ ACL-10137-1MM: 37-pin D-sub male/male cable, 1 M

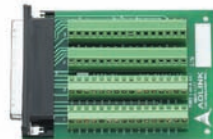
ACLD-9137-01 / ACLD-9137F-01



General Purpose Terminal Board with One 37-pin D-sub Connector

- ACLD-9137: on-board 37-pin D-sub male connector
- ACLD-9137F: on-board 37-pin D-sub female connector
- Dimensions: 124 mm x 72 mm
- Mating Cables:
 - ♦ ACL-10137-1MM: 37-pin D-sub male/male cable, 1 M (for ACLD-9137F-01)
 - ♦ ACL-10137-1MF: 37-pin D-sub male/female cable, 1 M (for ACLD-9137F-01)

TB-6201-01 / TB-6221-01 / TB-6231-01



General Purpose/Multiplexer/Matrix Switch Terminal Board with One 62-pin D-sub Connector

- For use with PXI-7901, PXI-7921, and PXI-7931
- On-board Connector Type: 62-pin D-sub female
- Dimensions: 105.81 mm x 230 mm
- Mating Cable:
 - ♦ ACL-10262: 62-pin D-sub male/male cable, 1 M

TB-9221



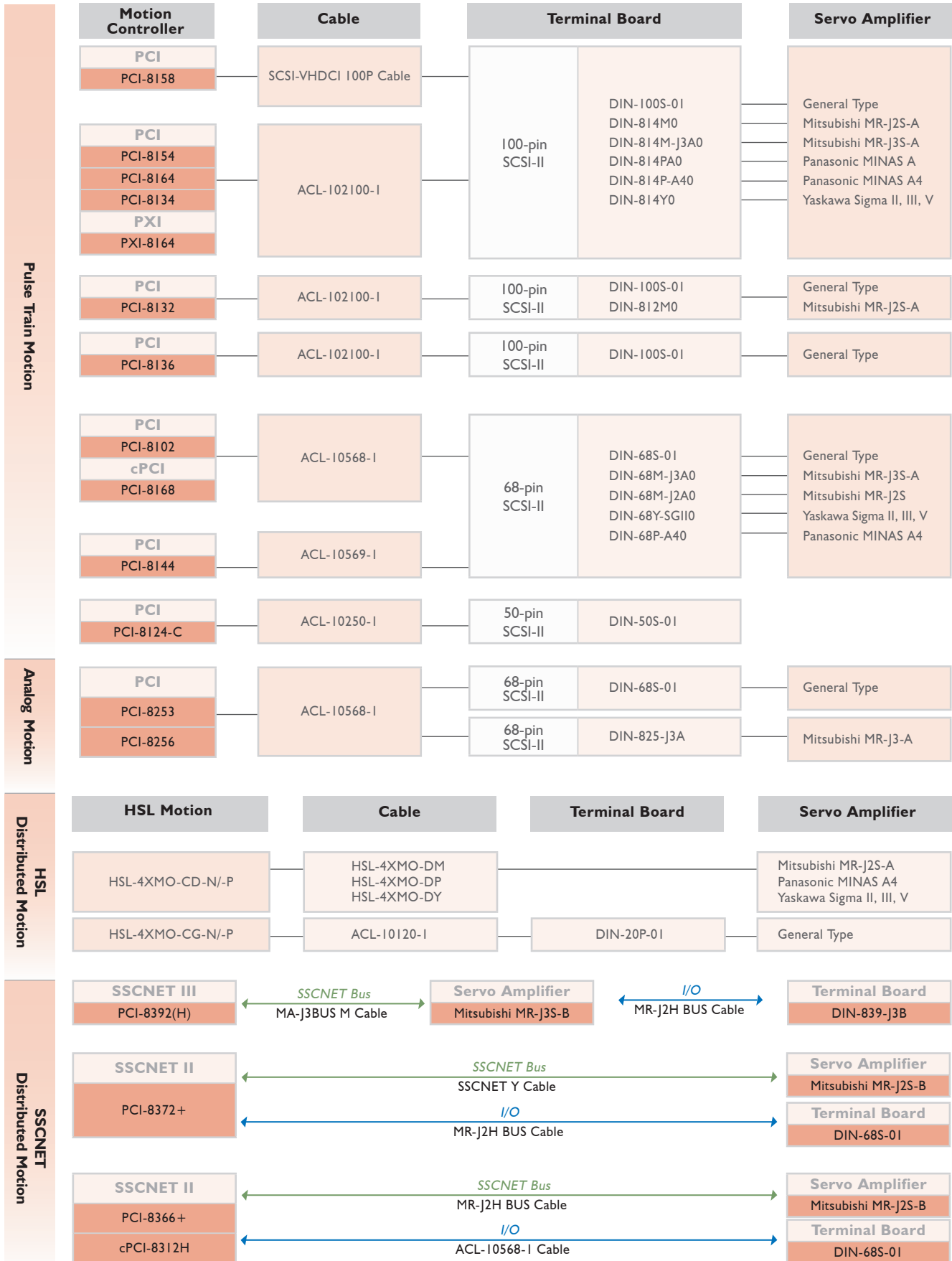
General Purpose Terminal Board with One 37-pin D-sub Connector. Support Differential to Single-ended Encoder Signal Conversion for PCI-9221

- For use with PCI-9221
- On-board Connector Type: 37-pin D-sub female
- Dimensions: 155 mm x 106 mm
- Mating Cable:
 - ♦ ACL-10137-1MM: 37-pin D-sub male/male cable, 1 M

Ordering Information

■ ACLD-9881-01	General purpose terminal board with one 37-pin D-sub connector for PCI-9113A and ACL-8113A	■ TB-6201-01	General purpose switch terminal board with one 62-pin D-sub female connector for PXI-7901, PXI-7921, and PXI-7931
■ ACLD-9188-01	General purpose terminal board with two 20-pin headers and one 37-pin D-sub connector	■ TB-6221-01	Multiplexer switch terminal board with one 62-pin D-sub female connector for PXI-7901, PXI-7921, and PXI-7931
■ ACLD-9138-01	General purpose termination board with one 37-pin D-sub connector	■ TB-6231-01	Matrix switch terminal board with one 62-pin D-sub female connector for PXI-7901, PXI-7921, and PXI-7931
■ ACLD-9137-01	General purpose terminal board with one 37-pin D-sub male connector	■ TB-9221	General purpose terminal board with one 37-pin D-sub connector supports differential to single-ended encoder signal conversion for PCI-9221
■ ACLD-9137F-01	General purpose terminal board with one 37-pin D-sub female connector		

Terminal Board & Cable Selection Guide for Motion



Terminal Board for Motion

For Mitsubishi Servos

DIN-812M0



Terminal Board for Mitsubishi MR-J2S-A Servo Amplifiers

- On-board Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

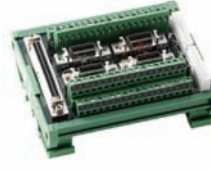
DIN-814M0



Terminal Board for Mitsubishi MR-J2S-A Servo Amplifiers

- On-board Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

DIN-68M-J2A0



Terminal Board for Mitsubishi MR-J2S-A Servo Amplifiers

- On-board Connector Type: 68-pin SCSI-II
- Dimensions: 103 mm x 83 mm x 43 mm (W x L x H)
- Mating Cable: -ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
-ACL-10569-1: 68-pin SCSI-II cable, 1 M

DIN-814M-J3A0



Terminal Board for Mitsubishi MR-J3S-A Servo Amplifiers

- Onboard Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

For Mitsubishi Servos

DIN-68M-J3A0



Terminal Board for Mitsubishi MR-J3S-A Servo Amplifiers

- On-board Connector Type: 68-pin SCSI-II
- Dimensions: 103 mm x 83 mm x 43 mm (W x L x H)
- Mating Cables: -ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
-ACL-10569-1: 68-pin SCSI-II cable, 1 M

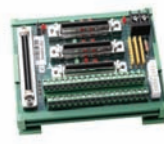
DIN-839-J3B



Terminal Board for Mitsubishi MR-J2S-A Servo Amplifiers

- On-board Connector Type: 68-pin SCSI-II
- Dimensions: 103 mm x 83 mm x 43 mm (W x L x H)
- Mating Cable: -MA-J2HBUS M: controller to amplifier bus cable

DIN-825-J3A



Terminal Board for Mitsubishi MR-J3S-A Servo Amplifiers

- On-board Connector Type: 68-pin SCSI-II
- Dimensions: 103 mm x 83 mm x 43 mm (W x L x H)
- Mating Cable: -ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
-ACL-10569-1: 68-pin SCSI-II cable, 1 M

DIN-814Y0



Terminal Board for Yaskawa Sigma II/III/V Servo Amplifiers

- On-board Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

DIN-68Y-SGII0



Terminal Board for Yaskawa Sigma II/III/V Servo Amplifiers

- On-board Connector Type: 68-pin SCSI-II
- Dimensions: 103 mm x 83 mm x 43 mm (W x L x H)
- Mating Cables: -ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
-ACL-10569-1: 68-pin SCSI-II cable, 1 M

For Panasonic Servos

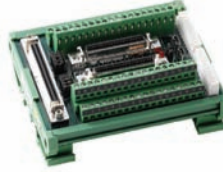
DIN-814P-A40



Terminal Board for Panasonic MINAS A4 Servo Amplifiers with 100-pin SCSI-II connector

- On-board Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

DIN-68P-A40



Terminal Board for Panasonic MINAS A4 Servo Amplifiers with 68-pin SCSI-II connector

- On-board Connector Type: 68-pin SCSI-II
- Supports 500 k & 2 Mpps pulse frequency input options
- Mating Cables: -ACL-10568-1: 68-pin SCSI-VHDCI cable, 1 M
-ACL-10569-1: 68-pin SCSI-II cable, 1 M

DIN-814PA0



Terminal Board for Panasonic MINAS A Servo Amplifiers

- On-board Connector Type: 100-pin SCSI-II
- Dimensions: 123 mm x 107 mm x 44 mm (W x L x H)
- Mating Cable: -ACL-102100-1: 100-pin SCSI-II cable, 1 M

Ordering Information

■ DIN-812M0	Terminal Board for Mitsubishi MR-J2S-A servo amplifiers	■ DIN-814Y0	Terminal board for Yaskawa Sigma II/III/V servo amplifiers
■ DIN-814M0	Terminal board for Mitsubishi MR-J2S-A servo amplifiers	■ DIN-68Y-SGII0	Terminal board for Yaskawa Sigma II/III/V servo amplifiers
■ DIN-68M-J2A0	Terminal board for Mitsubishi MR-J2S-A servo amplifiers	■ DIN-814P-A40	Terminal board for Panasonic MINAS A4 servo amplifiers
■ DIN-814M-J3A0	Terminal board for Mitsubishi MR-J3S-A servo amplifiers	■ DIN-68P-A40	Terminal board for Panasonic MINAS A4 servo amplifiers
■ DIN-68M-J3A0	Terminal board for Mitsubishi MR-J3S-A servo amplifiers	■ DIN-814PA0	Terminal board for Panasonic MINAS A servo amplifiers
■ DIN-839-J3B	Terminal board for Mitsubishi MR-J2S-A servo amplifiers	■ DIN-825-J3A	Terminal board for Mitsubishi MR-J3S-A servo amplifiers

Cable Accessories

Cable - General Purpose

ACL-10568-1

68-pin SCSI-VHDCI cable (mating with AMP-787082-7), 1 M



ACL-10569-1

68-pin SCSI-II cable (mating with AMP-787082-7), 1 M



ACL-102100-1

100-pin SCSI-II cable (mating with AMP-787082-9), 1 M



ACL-10120-1

20-pin flat cable, 1 M



ACL-10250-1

50-pin SCSI-II cable (mating with AMP-787082-5), 1 M



ACL-10137-1MM

37-pin D-sub male/male cable, 1 M



ACL-10137-1MF

37-pin D-sub male/female cable, 1 M



ACL-10232

9-pin D-sub (RS-232) male/female cable, 5 M



Cable - DAQ

ACL-10150

50-pin flat cable



ACL-10237-1 (male/male)

37-pin D-sub male/male flat cable, 1 M



ACL-10262

62-pin D-sub male/female cable, 1 M



ACL-10568F-1

68-pin SCSI-VHDCI flat cable, 1 M
(for PCI-7442, PCI-7443, and PCI-7444)



ACL-10220-1

20-pin shielded & grounded cable, 1 M



ACL-10252-1

100-pin to two 50-pin cable, 1 M
(for DIN-502S)



ACL-10279

68-pin SCSI-VHDCI cable with 50 Ω impedance



ACL-102150

SCSI-100 to MINI SCSI-100 connector, 1 M
(for cPCI-7452 only)



ACL-10437

40-pin header to 37-pin D-sub PC back panel
(for ACL-7225 and PCI-7200)



ACL-105100

100-pin SCSI-II assembly



ACL-10537

37-pin D-sub assembly



ACL-10550

50-pin SCSI-II assembly



ACL-10568D-1

Dual-68-pin head to two 68-pin SCSI-VHDCI cable, 1 M
(for PCI-7442, PCI-7443, and PCI-7444)



ACL-IEEE488-1

IEEE 488 standard cable, 1 M



ACL-PCIEXT-5

Extension cable, 5 M
(for PCIS-8580-4S/13S)



ACL-PXIES-2

Copper cable kit, 2 M
(for PCI-8570 and PXI-8570)



ACL-SSI-2/3/4

SSI bus cable for 2/3/4 devices



SMB-BNC-1M

SMB to BNC cable, 1 M



SMB-SMB-1M

SMB to SMB cable, 1 M



Cable- Motion

HSL-4XMO-DM Cable

- For Mitsubishi MR-J2S-A servo amplifiers
- Available for 1 M, 2 M, 3 M



SSCNET Y Cable

- PCI-8372+ controller to amplifier bus cable
- Compliant with PCI-8372+
- Available for 2 M, 5 M, 10 M



HSL-4XMO-DP Cable

- For Panasonic MINAS A4 servo amplifier with brake control
- Available for 1 M, 1.5 M, 2 M



SCSI-VHDCI 100P Cable

- SCSI-VHDCI 100-pin cable
- Compliant with PCI-8158
- Available for 2 M, 3 M



HSL-4XMO-DY Cable

- For Yaskawa Sigma II/III/V servo amplifier
- Available for 1 M, 2 M, 3 M



MR-JCCBL M

- Encoder cable (for KFS series)
- Available for 2 M, 5 M



MR-J3BUS M

- SSCNET III fiber cable
- Available for 0.15 M, 0.3 M, 0.5 M, 1 M, 3 M, 5 M



MR-JHSCBL M

- Encoder cable (for SFS series)
- Available for 2 M, 5 M



MR-J2HBUS M

- Controller to amplifier bus cable
- Compliant with PCI-8392(H), PCI-8366+, and cPCI-8312H
- Available for 2 M, 5 M



ACL-50P M

- Controller to amplifier bus cable, 50-pin to 50-pin
- Available for 1 M, 2 M, 3 M
- Suitable for Panasonic A4 servo and Yaskawa Sigma II, III and V servo



MR-J2HBUS M(CAN)

- Controller to amplifier bus cable
- Compliant with PCI-8392(H), PCI-8366+, and cPCI-8312H
- Available for 2 M, 5 M



ACL-50P M-OPEN

- Controller to amplifier bus cable, 50-pin to open wire
- Available for 2 M, 3 M
- Suitable for Panasonic A4 servo and Yaskawa Sigma II, III and V servo

