

PROFIBUS SELECTION GUIDE

BradCommunications[™]

BradConnectivity[™]

BradControl[™]





Woodhead Industries, a Division of Molex "Empowers the Industrial Infrastructure" with innovative communication, control and connectivity solutions for a wide range of PROFIBUS applications - from the device and sensor level, to the operations and supervisory level, to connectivity with enterprise business and operations systems.

The success of PROFIBUS relies on the quality and performance of its underlying infrastructure - all the devices, components and pathways needed to support the network's communications, connectivity and control capabilities. Our Brad® automation and networking solutions are engineered to facilitate reliable information flow, from machines to PCs and PLCs, and all the way from the plant floor to the enterprise.

Brad® Automation Solutions

Our Brad® product lines - including such globally recognized names as Brad Harrison®, applicom®, Direct-Link™, SST™, mPm®, and RJ-Lnxx® - are designed to help engineers, systems integrators, machine builders and other OEMs successfully implement their PROFIBUS networking projects in harsh and demanding industrial environments.

Brad® product lines are developed in compliance with the standards and specifications published by industrial organizations to guarantee you a high level of performance, reliability and availability. An active member of PROFIBUS Trade Organisation (PTO), Woodhead Industries provides the most complete product offering and technical support for your PROFIBUS network.

Our industrial network solutions include:

BradCommunications™ - Network interface cards, PLC backplanes, switches, gateways, simulation software, diagnostic tools and embedded software stacks

BradConnectivity™ - Connectors, cordsets and distribution boxes for sensor, actuator and bus network applications

BradControl™ - Network I/O for on-machine and in-cabinet applications

BradPower™ - Modular wiring systems for machine power distribution and motor control

Woodhead Industries, a Division of Molex, operates from 21 locations in 10 countries spanning North America, Europe and Asia/Pacific, so we have the resources to assist you locally with all of your PROFIBUS project needs.

PROFIBUS Overview



PROFIBUS-DP (Decentralized Periphery) is a device level bus that supports both analog and discrete signals. It permits Mono-master or Multi-master systems, which provides a high degree of flexibility during system configurations. PROFIBUS allows all automation devices, sensors, actuators, PLC's, etc to communicate with each other over a single bus. It communicates at speeds from 9.6 Kbps to 12 Mbps over distances from 100 to 1,200 meters. PROFIBUS-DP doesn't natively support Intrinsically Safe installations.

PROFIBUS-PA (Process Automation) is a full-function fieldbus that is generally used for process level instrumentation. PROFIBUS-PA communicates at 31.25 Kbps and has a maximum distance of 1,900 meters per segment. PROFIBUS-PA is designed to support Intrinsically Safe applications.

PROFIBUS Network Specifications

Type of Network	
DP	Device Bus
PA	Process Control Network
Physical Media	Twisted pair, fiber
Network Topology	Bus, Ring, Star
Maximum Devices	3
DP	max.126 stations on one bus (maximum of 244 bytes input and output data possible for each slave)
PA	32 nodes/segment 4-6 per repeated segment depending on power requirements of devices and the type of Intrinsically Safe barrier used.
Maximum Distance	e
DP	93.75Kbps and less - 1200 meters 500Kbps - 400 meters 1.5Mbps - 200 meters 12Mbps - 100 meters
PA	1,900 meters 9.500 meters with repeaters (max. of 9

in opecificati	0113
Communication	Methods
DP	Peer-to-peer, multicast or cyclic master- slave (uses token passing sequence)
PA	Client/server, Publisher/subscriber, Event. Both Scheduled and Unscheduled communications
Primary usage	
DP	Used for Discrete and Analog for PLC, Variable Speed Drives, Remote I/O communications
PA	Analog and discrete process control devices
Power and Com	nunications
DP	Power is supplied separately from communications bus
PA	Requires PA power supply
Device Power Su	ipply
DP	Devices are powered separately from communications bus
PA	Can be supplied from bus (typical)
Wiring Types	
DP	Shielded twisted pair #22 AWG
PA	Shielded twisted pair #18 AWG (0.8mm)

For additional product and technical information, visit www.woodhead.com/ecatalog.

repeaters can be used)

BradConnectivity[™]



CONNECTORS, CORDSETS AND DISTRIBUTION BOXES FOR SENSOR, ACTUATOR AND BUS NETWORK APPLICATIONS

BUS CONNECTIVITY



- Plug & play connection between PROFIBUS modules
- Single and double ended
- Straight and 90°
- Standard and application specific lengths

Characteristics |

- ·PUR jacketed for chemical and oil resistant applications
- Anti-vibration feature prevents back-out in high vibration applications
- 360° shielded head design to reduce RFI/EMI and improve signal integrity
- ·IP65/67, NEMA 6P



- Plug & play connection between PROFIBUS interface cards and modules
- D-Sub to single or dual ended M12
- D-Sub to single or dual ended D-Sub
- Horizontal, vertical, straight or 90° configurations
- Standard and application specific lengths

- ·Same performance benefits as M12 cordsets ·Shielded D-Sub connector maintains signal integrity in noisy environments
- D-Sub includes termination switch for field installation flexibility



- Connects the external bus with an enclosure
- Front panel mount
- Bulkhead feed-thru
- Wire or cable lead

Characteristics

- ·Used in control panels and junction boxes Epoxy potted for rugged industrial environments
- ·Male and female configurations



- · Field termination for specific length or repair
- Easy field installation of quick-disconnect desian
- D-Sub Horizontal or vertical

- ·Shielded to reduce RFI/EMI and improve signal D-Sub IDC with or without built-in diagnostics
- ·Male or female configurations

D-Sub Connectors



- Plug & play connection between PROFIBUS interface cards and modules
- Horizontal, vertical, or 90° configurations
- 9-pin D-Sub connectors

- ·Integrated programming / diagnostics port available
- ·12 MBaud supported
- ·LEDs for fast diagnostics and health status of bus and device available

- Provides quick disconnection of bus line
- Allows disconnection of node without shutting down the network
- Used with remote active IO modules

Characteristics

- ·Shielded to reduce RFI/EMI and improve signal integrity
- ·Male reverse key Micro-Change® Terminators ·M12 thread

BUS CORDSETS - Order Number

SINGLE-ENDED MICRO-CHANGE® (M12) CORDSETS

MALE STRAIGHT B05S06PP4M020 4M B05S06PP4M040 5M 6M B05S06PP4M050 B05S06PP4M060 B05S06PP4M100 MALE 90°

B05S07PP4M020 B05S07PP4M040 B05S07PP4M050 B05S07PP4M060 B05S07PP4M100

FEMALE STRAIGHT B05S00PP4M020 B05S00PP4M040 B05S00PP4M050 B05S00PP4M060 B05S00PP4M100

FEMALE 90° B05S01PP4M020 B05S01PP4M040 B05S01PP4M050 B05S01PP4M060 B05S01PP4M100

Double-Ended Micro-Change® (M12) Cordsets (Female/Male)



BB5S30PP4M006 0.6M 1M BB5S30PP4M010 BB5S30PP4M020 BB5S30PP4M030 4M BB5S30PP4M040

90°/STRAIGHT

BB5S31PP4M006 BB5S31PP4M010 BB5S31PP4M020 BB5S31PP4M030 BB5S31PP4M040

BB5S32PP4M010

BB5S32PP4M020

BB5S32PP4M030

BB5S32PP4M040

BB5S32PP4M050





90°/90°

BB5S33PP4M006 BB5S33PP4M010 BB5S33PP4M020 BB5S33PP4M030 BB5S33PP4M040 BB5S33PP4M050

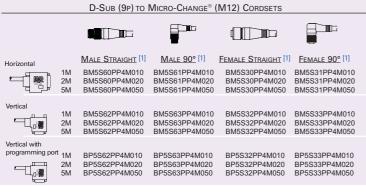
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BradConnectivity[™]



CONNECTORS, CORDSETS AND DISTRIBUTION BOXES FOR SENSOR, ACTUATOR AND BUS NETWORK APPLICATIONS

BUS CORDSETS - Order Number



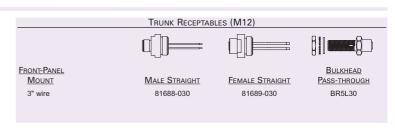
D-Sub (9p) to Dual Micro-Change® (M12) Cordsets					
					Male Straight [1] /
	MALE STRAIGHT [2]	MALE 90° [2]	FEMALE STRAIGHT [2]	FEMALE 90° [2]	FEMALE STRAIGHT [1]
1M 2M 5M	BM5G60PP4M010 BM5G60PP4M020 BM5G60PP4M050	BM5G61PP4M010 BM5G61PP4M020 BM5G61PP4M050	BM5G30PP4M020	BM5G31PP4M010 BM5G31PP4M020 BM5G31PP4M050	BM5G70PP4M020
1M 2M 5M	BM5G62PP4M010 BM5G62PP4M020 BM5G62PP4M050	BM5G63PP4M010 BM5G63PP4M020 BM5G63PP4M050	BM5G32PP4M020	BM5G33PP4M010 BM5G33PP4M020 BM5G33PP4M050	BM5G72PP4M020
1M 2M 5M	BP5G62PP4M010 BP5G62PP4M020 BP5G62PP4M050	BP5G63PP4M010 BP5G63PP4M020 BP5G63PP4M050	BP5G32PP4M010 BP5G32PP4M020 BP5G32PP4M050	BP5G33PP4M010 BP5G33PP4M020 BP5G33PP4M050	BP5G72PP4M010 BP5G72PP4M020 BP5G72PP4M050

D-SUB (9P) TO D-SUB (9P) CORDSETS						
Horizontal		HORIZONTAL	VERTICAL	SINGLE-ENDED		
	1M 2M 5M	MM3S60PP4M010 MM3S60PP4M020 MM3S60PP4M050	MM3S62PP4M010 MM3S62PP4M020 MM3S62PP4M050	M03S06PP4M010 M03S06PP4M020 M03S06PP4M050		
Vertical	1M 2M 5M	MM3S62PP4M010 MM3S62PP4M020 MM3S62PP4M050	MM3S63PP4M010 MM3S63PP4M020 MM3S63PP4M050	M03S07PP4M010 M03S07PP4M020 M03S07PP4M050		
Vertical with programming po	1M 2M 5M	MP3S62PP4M010 MP3S62PP4M020 MP3S62PP4M050	MP3S63PP4M010 MP3S63PP4M020 MP3S63PP4M050	P03S07PP4M010 P03S07PP4M020 P03S07PP4M050		

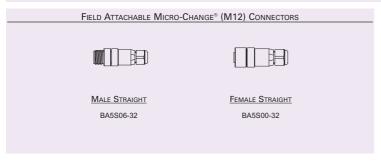
	D-Sub (9p) to	DUAL D-SUB (9P) (DAISY-CHAIN)	CORDSETS
	HORIZONTAL [2]	Vertical [2]	HORIZONTAL [1] / VERTICAL [1]
1M 2M 5M	MM3G60PP4M010 MM3G60PP4M020 MM3G60PP4M050	MM3G61PP4M010 MM3G61PP4M020 MM3G61PP4M050	MM3G70PP4M010 MM3G70PP4M020 MM3G70PP4M050
1M 2M 5M	MM3G62PP4M010 MM3G62PP4M020 MM3G62PP4M050	MM3G63PP4M010 MM3G63PP4M020 MM3G63PP4M050	MM3G72PP4M010 MM3G72PP4M020 MM3G72PP4M050
1M 2M 5M	MP3G62PP4M010 MP3G62PP4M020 MP3G62PP4M050	MP3G63PP4M010 MP3G63PP4M020 MP3G63PP4M050	MP3G72PP4M010 MP3G72PP4M020 MP3G72PP4M050

BUS RECEPTACLES - Order Number



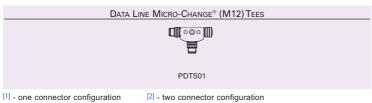


BUS FIELD-ATTACHABLE CONNECTORS - Order Number



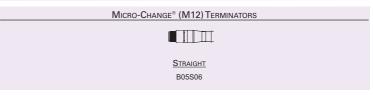


BUS TEES - Order Number



[2] - two connector configuration

BUS TERMINATORS - Order Number



BradConnectivity[™]



CONNECTORS, CORDSETS AND DISTRIBUTION BOXES FOR SENSOR, ACTUATOR AND BUS NETWORK APPLICATIONS

POWER CONNECTIVITY

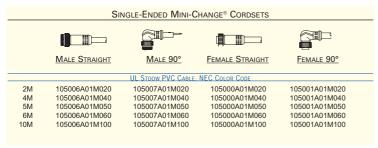
Auxiliary Power 5-Pole Media

- Supplies auxiliary power to a variety of devices, including active I/O modules or machine stop tees
- Complete system of cordsets (single and double-ended), tees and receptacles
- Standard and application-specific lengths



- | Characteristics
- Rugged IP68 rated connectors bring power to active I/O modules reliably
- ·Variety of connector configuration and cable length options available

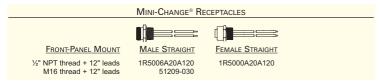
POWER CORDSETS - Order Number



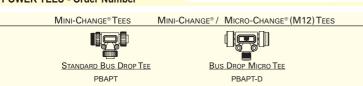
	Double-Ended Mini-Change® Cordsets (Female/Male)					
	STRAIGHT/STRAIGHT	90°/STRAIGHT	STRAIGHT/90°	<u>90°/90°</u>		
		UL STOOW PVC CABLE, I	VEC COLOR CODE			
0.6M	115030A01M006	115031A01M006	115032A01M006	115033A01M006		
1M	115030A01M010	115031A01M010	115032A01M010	115033A01M010		
2M	115030A01M020	115031A01M020	115032A01M020	115033A01M020		
3M	115030A01M030	115031A01M030	115032A01M030	115033A01M030		
4M	115030A01M040	115031A01M040	115032A01M040	115033A01M040		
5M	115030A01M050	115031A01M050	115032A01M050	115033A01M050		

					_			
Single-Ended Micro-Change® (M12) Cordsets					Double-Ended Micro-Change® (M12) Cordsets (Female/Male)			
						Ball		
	MALE STRAIGHT	MALE 90°	FEMALE STRAIGHT	FEMALE 90°	STRAIGHT/STRAIGHT	90°/STRAIGHT	STRAIGHT/90°	<u>90°/90°</u>
				PVC CABLE, IEC COLOR CODE	FOR COMPACT I/O MODULES [1]			
0.6M	-	-	-	-	885030E03M006	885031E03M006	885032E03M006	885033E03M006
1M	-	-	-	-	885030E03M010	885031E03M010	885032E03M010	885033E03M010
2M	805006E03M020	805007E03M020	805000E03M020	805001E03M020	885030E03M020	885031E03M020	885032E03M020	885033E03M020
3M	-	-	-	-	885030E03M030	885031E03M030	885032E03M030	885033E03M030
4M	805006E03M040	805007E03M040	805000E03M040	805001E03M040	885030E03M040	885031E03M040	885032E03M040	885033E03M040
5M	805006E03M050	805007E03M050	805000E03M050	805001E03M050	885030E03M050	885031E03M050	885032E03M050	885033E03M050
10M	805006E03M100	805007E03M100	805000E03M100	805001E03M100	885030E03M100	885031E03M100	885032E03M100	885033E03M100
			UL ITC/PL	TC HIGH FLEX TPE CABLE, IEC	COLOR CODE FOR COMPACT I/O MO	DULES [2]		
0.6M	-	-	-	-	885030K05M006	885031K05M006	885032K05M006	885033K05M006
1M	-	-	-	-	885030K05M010	885031K05M010	885032K05M010	885033K05M010
2M	805006K05M020	805007K05M020	805000K05M020	805001K05M020	885030K05M020	885031K05M020	885032K05M020	885033K05M020
3M	-	-	-	-	885030K05M030	885031K05M030	885032K05M030	885033K05M030
4M	805006K05M040	805007K05M040	805000K05M040	805001K05M040	885030K05M040	885031K05M040	885032K05M040	885033K05M040
5M	805006K05M050	805007K05M050	805000K05M050	805001K05M050	885030K05M050	885031K05M050	885032K05M050	885033K05M050
10M	805006K05M100	805007K05M100	805000K05M100	805001K05M100	885030K05M100	885031K05M100	885032K05M100	885033K05M100

POWER RECEPTACLES - Order Number



POWER TEES - Order Number



POWER FIELD-ATTACHABLE CONNECTORS - Order Number

MINI-CHANGE® FIELD-ATTACHABLE CONNECTORS MALE STRAIGHT FEMAL STRAIGHT 1A5006-34 1A5000-34

MCRO-CHANGE® (M12) FIELD-ATTACHABLE CONNECTORS (FOR COMPACT I/O)





8A4000-32

For additional product and technical information, visit www.woodhead.com/ecatalog.

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^[1] The standard coupling nut is nickel-plated brass. For 316 Hex stainless steel, add an "8" at the end [2] The standard coupling nut is nickel-plated brass with Teflon coating. For 316 Hex stainless steel, add an "8" at the end

BradControl[™]

NETWORK I/O FOR ON-MACHINE AND IN-CABINET APPLICATIONS

IP20 I/O MODULES

IP20 Fieldbus Couplers

- DP-V0 Slave
- Digital and Analog signals
- Carrier Rail DIN 35

Characteristics

- ·Speed: 9.6 Kbps to 12 Mbps ·Port: D-Sub, 9 pin, female
- ·Slave address: 1 99 (via rotating wheels)
- ·Front status LED for easy diagnostic

Order Number

BCB-APB-001 PROFIBUS coupler

IP20 Digital Modules

- Input and output modules
- Easy replacement of module without unwiring
- CAGE CLAMP® Connection

Characteristics

- ·Carrier Rail DIN 35
- ·Status through Signal LED ·Size: 98 x 80 x 93 mm
- -24 VDC

Order Number

BCB-FDI-081 8 input (5ms) BCB-FDI-161 16 input (5ms) BCB-FDI-162 16 input (w/ counter) BCB-TDI-011 Terminal module

BCB-FDO-081 8 output (1 A)

BCB-FDO-083 8 output (2 A w/ scp[1])

BCB-FDO-161 16 output (1 A) BCB-FDO-163 16 output (2 A w/ scp[1])

BCB-TDO-012 Terminal module

BCB-FDM-161 8 input (5ms) & 8 output (1A)

BCB-FDM-163 8 input (5ms) & 8 output (2A, scp[1]) BCB-FDM-164 8 input (0.5ms) & 8 output (2A, scp[1])

BCB-TDM-013 Terminal module

BCB-FDM-165 16 input (5ms) - 16 output (2A, scp[1])

BCB-TDM-016 Terminal module

BCB-FRO-081 8 relay output (220V/2A)

* All BradControl™ IP67 modules with

BCB-TRO-051 Terminal module

IP20 Analog Modules

- Input modules
- Output modules
- Easy replacement of module without unwiring
- CAGE CLAMP® Connection

- ·Carrier Rail DIN 35 ·Size: 98 x 80 x 93 mm ·12 bit resolution
- ·24 VDC

Characteristics

BCB-FAI-082 8 input (0 - 10 V DC) BCB-TAI-023 Terminal module BCB-FAI-084 8 input (0 - 20 mA) BCB-TAI-124 Terminal module BCB-FAO-041 4 output +/- 10V BCB-FAO-042 4 output 0-20mA

BCB-TAO-022 Terminal module

Order Number

Micro-Change® (M12) ports accept both threaded cordsets and the new BradConnectivity™ Ultra-Lock™ Connection System, the fastest, easiest, and most secure connection ever. Ultra-Lock™ technology is designed for higher performance and reliability to eliminate downtime, increase productivity, and lower costs.

For more information visit: woodhead.com/ultralock



IP67 I/O MODULES



·30 mm wide package size

·Slave DP-V0

Speed: 9.6 Kbps to 12 Mbps



Classic Threaded and Ultra-Lock™ with 8 P M12 Connection

·60 mm wide package size

Speed: 9.6 Kbps to 12 Mbps



Characteristics

Order Number

- IP67 digital I/O modules Reliable world-class product for harsh environment
- Standard mounting hole pattern allows for interchangeably with popular I/O modules
- Visible diagnostic through status LEDs for network, module, external power, inputs & outputs

Characteristics ·30 mm wide package size

- ·8 ports, M8 Nano-Change
- ·Speed: 9.6 Kbps to 12 Mbps
- Slave DP-V0

Order Number

TBDPB-880x-B84[2] 8 input TBDPB-862x-B84[2] 6 input, 2 output TBDPB-844x-B84[2] 4 input, 4 output

TBDPB-808P-B84[2] 8 output [1] - scp, short circuit protection provided

TBDPB-462x-B8U[2] 6 input, 2 output TBDPB-444x-B8U[2] 4 input, 4 output TBDPB-408P-B8U[2] 8 output

·4 ports, M12 Ultra-Lock™ technology*

TBDPB-480x-B8U[2] 8 input

Order Number

TCDPB-8D0x-B1U[2] 16 input TCDPB-8C2x-B1U[2] 14 input, 2 output TCDPB-8B4x-B1U[2] 12 input, 4 output TCDPB-888x-B1U[2] 8 input, 8 output

·8 ports, M12 Ultra-Lock™ technology*

For additional product and technical information, visit www.woodhead.com/ecatalog.

·Slave DP-V0

[2] - replace \mathbf{x} by \mathbf{N} for \mathbf{NPN} input or \mathbf{P} for \mathbf{PNP} input 6

BradCommunications

NETWORK INTERFACE CARDS, PLC BACKPLANES, SWITCHES, GATEWAYS, SIMULATION SOFTWARE AND DIAGNOSTIC TOOLS

PLC BACKPLANES



- Connects your Allen-Bradley SLC 500 to a PROFIBUS network
- Simultaneous operation of protocols

Speed: 9.6 Kbps to 12 Mbps

- ·Protocols: - Master DP-V0
 - Slave DP-V0
 - FDL Send/Receive

SST-PFB-SLC Backplane for A-B SLC 500

A-B PLC-5

- Connects your Allen-Bradley PLC-5 to a PROFIBUS network
- Simultaneous operation of protocols

Characteristics

- Speed: 9.6 Kbps to 12 Mbps ·Protocols:
 - Master DP-V0
 - Slave DP-V0

Order Number SST-PFB-PLC5 Backplane for A-B PLC-5

 Connects your Allen-Bradley ControlLogix to a PROFIBUS network

- RLL support: remote configuration and monitoring via A-B RSLinx
- Data exchange up to 1984 bytes I/O
- CommDTM driver Easy access to DP-V1 devices from any FDT frame applications

Characteristics

Speed: 9.6 Kbps to 12 Mbps ·Protocols:

- Master DP-V1 Class-1 & 2
 - Master DP-V0 Class-1 & 2
- Slave DP-V0

Order Number

SST-PFB-CLX-RLL Backplane for A-B ControlLogix SST-PFB-CLX-DTM CommDTM Software driver

NETWORK INTERFACE CARDS



- Fully integrated package: solution + services
- Compatible with Siemens Simatic® S5 and S7 PLC series
- All PROFIBUS protocols run simultaneously
- PCI Universal 3.3/5V (PCI-X compatible)
- ·RoHS compliant
- Speed: 9.6 Kbps to 1.5 Mbps ·Protocols:
 - Client S7/MPI
- Master DP-V0 Class-1 & 2
 - Master FDL S5
- Master PPI/PPI+ - FDL Send/Receive

Characteristics

Order Number

- ·Software Interfaces included1]
- ·Compatible with various OS[2]

Order Number APP-PFB-PCU PCI bus, 3.3/5V, all protocols APP-PS7-PCU PCI bus, 3.3/5V, S7/MPI protocol only Combo Card -PROFIBUS + Ethernet

- Combo offer: full PROFIBUS 1.5 Mbps + Ethernet 10/100 Mbps
- All PROFIBUS and Ethernet protocols can run simultaneously

Characteristics

- ·PCI Universal 3.3/5V (PCI-X compatible)
- ·RoHS compliant
- ·Software Interfaces included[1]
- ·Compatible with various OS[2]
- ·Protocols:

PROFIBUS 9.6 Kbps to 1.5 Mbps

- Master DP-V0 Class-1 & 2
- Client S7/MPI
- Master FDL S5
- Master PPI/PPI+
- FDL Send/Receive

Ethernet TCP/IP 10/100 Mbps

- EtherNet/IP PCCC Logix 5000 (Allen Bradley)
- Alnet II (Altus) - SRTP (Alstom)
- SRTP (GE Fanuc)
- Melsec (Mitsubishi)
- Fins (Omron)
- Modbus TCP & UDP - Uni-TE (Schneider)
- Industrial Ethernet (Siemens)

Order Number

Characteristics

S7/MPI Master

APP-EPB-PCU PCI bus, 3.3/5V, all protocols



- All PROFIBUS protocols run simultaneously
- Run DP up to 12Mbps ·Speed: 9.6 Kbps to 12 Mbps

·Protocols:

- Master DP-V0 Class-1 & 2 Slave DP-V0
- Client S7/MPI
- Master FDL S5
- Master PPI/PPI+ - FDL Send/Receive

Characteristics

- ·Software Interfaces included[1]
- ·Compatible with various OS[2]

APP-PFB-CPI CompactPCI 3U bus



- Connects your laptop to PROFIBUS DP-V1
- CommDTM driver Easy access to DP-V1 devices from any FDT frame applications

■ Characteristics

- ·USB adapter 2.0 & 1.1, RoHS compliant Speed: 9.6 Kbps to 12 Mbps
- · Protocols: - Master DP-V1 Class-1 & 2



- Economical solution
- Ideal for OEM applications

·USB adapter 2.0 & 1.1, RoHS compliant Speed: 9.6 Kbps to 12 Mbps Protocols:

- Client S7/MPI
- PFB DP-V0 Master/Slave
- S7/MPI Slave - PFR DP-V1 Master/Slave - S5 for Simatic
- ·Software Interfaces included[1] ·Compatible with various OS[2]

Order Number

DRL-MPI-USB USB adapter MPI/S7 DRL-PFB-USB USB adapter Full PROFIBUS

- 1 Software interfaces include: OPC Server, ActiveX control, Wonderware DAServer, Wonderware I/O server, development libraries (DLL, NI LabVIEW / Labwindows, etc.)
- [2] Support Windows 32 bits (XP, 2000, 2003 Server), XPe, NTe, Ardence RTX, VxWorks, QNX, Linux, DOS

BradCommunications

NETWORK INTERFACE CARDS, PLC BACKPLANES, SWITCHES, GATEWAYS, SIMULATION SOFTWARE AND DIAGNOSTIC TOOLS

NETWORK INTERFACE CARDS



- OFM module for fast and easy implementation into systems
- Lower integration costs with direct DPRAM access
- Quick start with development and evaluation kit

Characteristics |

- ·Compact size 80 x 40 mm ·Speed: 9.6 Kbps to 12 Mbps
- ·Protocols: Master DP-V1 Class-1 & 2 | - Client S7/MPI
 - Master DP-V0 Class-1 & 2 - FDL Send/Receive
 - Slave DP-V0

Order Number

SST-DC100DPM-S DP Protocols SST-DC100DPM-H DP Protocols (HE13 conn. version) Slave Only Interface Card

- PROFIBUS-DP Slave only
- Low cost OEM solution Ideal for integration into systems
- Direct I/O memory map access

Characteristics

·Port: HE13 10 pin Speed: 9.6 Kbps to 12 Mbps ·Protocols:

SST-DPS-104 PC/104 bus

- DP-V1 Slave
- DP-V0 Slave

Order Number



- Economical solution
- Dedicated to Siemens Simatic[®] S7 PLC series
- Ideal for OEM applications

Characteristics

- ·PCI Universal 3.3/5V (PCI-X compatible)
- ·Speed: 9.6 Kbps to 12 Mbps ·Protocols:
 - Client S7/MPI
- Software Interfaces included[1]
- ·Compatible with various OS[2]

Order Number

DRL-MPI-PCU PCI bus, 3.3/5V

Interface Cards for High



- Highly customizable network access via Direct DPRAM services
- OEM ready, hardware and software components provided separately
- Manage DP Master and Slave modes simultaneously
- CommDTM driver Easy access to DP-V1 devices from any FDT frame applications









Order Number

- ·Speed: 9.6 Kbps to 12 Mbps
- ·Protocols:
- Master DP-V1 Class-1 & 2
- Master DP-V0 Class-1 & 2
- Slave DP-V0
- FDL Send/Receive
- ·Software Components
 - Configuration and Diagnostic Console (Optional)
 - OPC Server DA 3.0 (Optional)
 - Windows DLL in C-Source Code
 - FDT Ready CommDTM Driver

Characteristics

SST-PB3-104 PC/104 bus SST-PB3-ISA ISA bus

SST-PB3-PCU PCI bus, 3.3/5V (PCI-X compatible) SST-PB3-VME-1 VME 6U double-eight bus, 1 port SST-PB3-VME-2 VME 6U double-eight bus, 2 ports

SST-PB3-OPC **OPC DA Server**

SST-PB3-CNF-P Configuration and Diagnostic Console, Parallel Key

Configuration and Diagnostic

Console, USB Key

- Deterministic data acquisition
- Auto mapping of I/O in DPRAM card
- Easily embedded in computerized systems
- Manage DP Master and Slave modes simultaneously
- All in one configuration, diagnostic tools, data servers and development libraries





SST-PB3-CNF-U



Order Number

Characteristics

- ·Speed: 9.6 Kbps to 12 Mbps ·Protocols:
 - Master DP-V0 Class-1 & 2
 - Slave DP-V0
- ·Software Interfaces included[1]
- ·RoHS compliant (PCU)

DRL-DPM-PCU PCI bus, 3.3/5V (PCI-X compatible) DRL-DPM-CPI

CompactPCI 3U bus DRL-DPM-104 PC/104 bus (HE13 conn. version)

·Compatible with various OS[2]

- Software interfaces include: OPC Server, ActiveX control, Wonderware DAServer, Wonderware I/O server, development libraries (DLL, NI LabVIEW / Labwindows, etc.)

2 - Support Windows 32 bits (XP, 2000, 2003 Server), XPe, NTe, Ardence RTX, VxWorks, QNX, Linux, DOS

For additional product and technical information, visit www.woodhead.com/ecatalog.

8

BradCommunications



NETWORK INTERFACE CARDS, PLC BACKPLANES, SWITCHES, GATEWAYS, SIMULATION SOFTWARE AND DIAGNOSTIC TOOLS

INDUSTRIAL GATEWAYS

Multi-Protocol Intelligent Industrial Gateways

- Enables high speed data exchange between industrial devices (PLC, I/O blocks, etc) through PROFIBUS, Ethernet TCP/IP or Serial connections
- Typical uses: Integration of legacy devices into new architecture, integration of different networks/manufacturers, data concentrator for SCADA connectivity
- No programming, just configuring
- No protocol knowledge required
- Powerful "Change of State" (COS) write access management
- 6 digital inputs / 2 digital outputs

·Protocols:

PROFIBUS 9.6 Kbps to 12 Mbps

- Master DP-V0
- Slave DP-V0
- Client S7/MPI
- Client FDL S5

Serial 2400 bps to 115.200 kbps

- Master DF1 (Allen Bradley)
 Master SNP-X (GE Fanuc)
- Master Modbus
- Slave Modbus (ASCII & RTU)
- Slave Uni-Telway (Schneider)
- Master AS511 (Siemens) - Master TI-Dir (Siemens)

Characteristics

Ethernet TCP/IP 10/100 Mbps

- EtherNet/IP PCCC (Allen Bradley)
- Alnet II (Altus)
- SRTP (Alstom) SRTP (GE Fanuc)
- Melsec (Mitsubishi)
- Fins (Omron)
- ModbusTCP & UDP - Uni-TE (Schneider)
- Industrial Ethernet (Siemens)

Order Number

Characteristics |

APP-ESR-GTW APP-ESP-GTW

Low Cost PROFIBUS

to Serial Gateway

GSD

·Protocols:

Ethernet to Ethernet/Serial Gateway PROFIBUS to

PROFIBUS /Ethernet/Serial Gateway



- Provides real-time connectivity between a PROFINET IO controller and PROFIBUS
- Easy to use: no programming, just configuring

Characteristics

- ·Speed: 9.6 Kbps to 12 Mbps ·Protocols:
 - Master DP-V0 Class 1 & 2 - Slave DP-V0
 - Client S7/MPI - Client FDL S5

Order Number

APP-PNT-GTW-P PROFINET IO Proxy to PROFIBUS or Ethernet or Serial



- Monitors and controls PROFIBUS devices using a standard web browser
- Customizes built-in HTML pages to create user interface
- Manages alarms information to remote centers (email, SMS, IPcallback)

- ·Speed: 9.6 Kbps to 12 Mbps ·Protocols:
- - Master DP-V0 Class-1 & 2 | Client S7/MPI - Slave DP-V0 - Master FDL S5

Order Number

APP-WEB-PFB-MTH Web Remote Gateway

with modem APP-WEB-TH

thinHMI graphical interface for Webgate

- Slave DP-V0 (9.6 kbps to 12 Mbps) Master & Slave Modbus RTU/ASCII

·Manages to up 20 Slave Modbus devices

Easy integration of legacy Serial devices

· Easy configuration of data exchange through

0 to 244 bytes in Read, 0 to 244 bytes in Write

(600 to 57600 bps)

(max 300 I/O)

DIN Rail, IP20 mounting

Order Number

·I/O memory size:

DRL-DPS-SRM PROFIBUS to Modbus Serial Gateway, Serial installation monitoring



- Cost-effective Gateway solutions
- Allows easy integration of legacy Ethernet/Serial devices to a PROFIBUS network
- DIN Rail, IP20 mounting

- Characteristics
- PROFIBUS: 9.6 Kbps to 12 Mbps - Ethernet: 10/100 Mbps
- Serial: 300 bps to 230.4 Kbps
- ·Protocols: Slave PROFIBUS DP-V0
 - Master & Slave Modbus RTU & ASCII
 - Client & Server Modbus TCP

Order Number

DRL-PFB-SRE Ethernet or Serial to PROFIBUS-DP Slave Gateway



- Allows easy integration of AS-i sensors and actuators to a PROFIBUS network
- Supports 2 AS-i rungs to connect up 104 AS-i devices
- Easy-to-use through buttons and display on the Gateway
- DIN Rail, IP20 mounting

Characteristics

- ·Speed: 9.6 Kbps to 12 Mbps ·Protocols:
 - Slave PROFIBUS DP-V0
 - Master AS-interface v2.1

Order Number

DRL-2ASI-PFB AS-interface to PROFIBUS-DP Slave Gateway

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BradControl[™]

Network I/O for on-machine and in-cabinet applications.

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Modular, flexible wiring systems for machine power distribution and motor control.

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