Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
BACnet/IP Option Module	20-750-BNETIP						✓
BACnet® MS/TP RS485 Communication Adapter	20-COMM-B	✓	✓	✓			
Coaxial ControlNet™ Option Module	20-750-CNETC						✓
ControlNet™ Communication Adapter (Coax)	20-COMM-C	✓	✓	✓	✓	✓	✓ §
DeviceNet™ Option Module	20-750-DNET						✓
DeviceNet™ Communication Adapter	20-COMM-D	✓	✓	✓	✓	✓	✓ §
Dual-port EtherNet/IP Option Module	20-750-ENETR						✓
EtherNet/IP™ Communication Adapter	20-COMM-E	✓	✓	✓	✓	✓	✓ §
Dual-port EtherNet/IP™ Communication Adapter	20-COMM-ER	✓	✓	✓	✓	✓	
HVAC Communication Adapter	20-COMM-H	✓	✓	✓	✓ ♠	✓	✓ §
CANopen® Communication Adapter	20-COMM-K	✓	✓	✓	✓	✓	✓ §
LonWorks® Communication Adapter	20-COMM-L	✓	✓	✓			✓ §
Modbus/TCP Communication Adapter	20-COMM-M	✓	✓	✓	✓	✓	✓ §
Profibus DPV1 Option Module	20-750-PBUS						✓
Single-port Profinet I/O Option Module	20-750-PNET						✓
Dual-port Profinet I/O Option Module	20-750-PNET2P						✓
PROFIBUS™ DP Communication Adapter	20-COMM-P	✓	✓	✓	✓	✓	✓ §
ControlNet™ Communication Adapter (Fiber)	20-COMM-Q	✓	✓	✓	✓	✓	✓ §
Remote I/O Communication Adapter △	20-COMM-R	✓	✓	✓	✓	✓	✓ §
RS485 DF1 Communication Adapter	20-COMM-S	✓	✓	✓	✓	✓	✓ §
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	✓	✓	✓	✓	✓
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	✓	✓	✓	✓	✓
External DPI I/O Option Board ♦	20-XCOMM-IO-OPT1	✓	✓	✓	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM1	✓	✓	✓	✓	✓	✓
DriveLogix ControlNet Communication Adapter (Coax) ‡	1788-CNC				✓	✓▽	
DriveLogix Comm Option, ControlNet Redundant (Coax) ‡	1788-CNCR				✓	✓▽	
DriveLogix Comm Option, ControlNet (Fiber) ‡	1788-CNF				✓	✓▽	
DriveLogix Comm Option, ControlNet Redundant (Fiber) ‡	1788-CNFR				✓	✓▽	
DriveLogix Comm Option, DeviceNet (Open Conn.) ‡	1788-DNBO				✓	✓▽	
DriveLogix Comm Option, EtherNet/IP (Twisted Pair) ‡	1788-ENBT				✓	✓▽	
DriveLogix5730 Comm Option, Embedded EtherNet/IP	20D-DL2-ENET0				✓	✓▽	

♦   For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

♠   Only Modbus RTU can be used.

‡   For use with DriveLogix option only. Requires Logix Expansion Board (20D-DL2-LEB0).

§   Requires a Communication Carrier Card (20-750-20COMM or 20-750-20COMM-F1). Refer to PowerFlex 750-Series Legacy Communication Compatibility for details.

▽   When using a PowerFlex 700S control.

△   This item has Silver Series status.

PowerFlex 750-Series Legacy Communication Compatibility

Most legacy communication adapters (20-COMM) can be used with the PowerFlex 753/755. However, the restrictions stated below do apply.

Frame 1 - It is recommended that the 20-750-20COMM-F1 Communication Carrier Card only be installed in Port 4. Port 5 will not be accessible when this module is installed.

Frames 2 and larger - It is recommended that the 20-750-20COMM Communication Carrier Card be installed in Port 6. Using Port 4 or 5 will make the adjacent left port inaccessible to other option modules and may interfere with network cable connections.

PowerFlex 750-Series Legacy Communication Compatibility (continued)

Adapter		Accesses Ports 0…6 for I/O Connections (Implicit and Explicit Messaging)	Accesses Ports 7 and Higher (I/O, Explicit Messaging)	Supports Drive Add-on Profiles	Supports Asian-Languages ♦
Cat. No.	Type				
20-COMM-B	BACnet MS/TP	Not Compatible			
20-COMM-C	ControlNet (Coax)	✓ v3.001 ♣	✓ v3.001 ♣	✓ ♠	✓ v3.001 ♣
20-COMM-D	DeviceNet	✓ ‡	Not Compatible		
20-COMM-E	EtherNet/IP	✓ v4.001 ♣	✓ v4.001 ♣	✓ ♠	✓ v4.001 ♣
20-COMM-H	RS-485 HVAC	✓ v2.009 § ♣	Not Compatible		
20-COMM-K	CANopen	✓ v1.001 ♣			
20-COMM-L	LonWorks	✓ v1.007 ♣			
20-COMM-M	Modbus/TCP	✓ v2.001 ♣	✓ v2.001 ♣	Not Compatible	✓ v2.001 ♣
20-COMM-P	ControlNet (Fiber)	✓ v1.006 ♣	✓ v1.006 ♣		Not Compatible
20-COMM-Q	PROFIBUS DP	✓ v3.001 ♣	✓ v3.001 ♣	✓ ♠	✓ v3.001 ♣
20-COMM-R △	Remote I/O	✓ ‡	Not Compatible		
20-COMM-S	RS-485 DF1	✓ ‡			

△   This item has Silver Series status.

‡   Controller must be capable of reading/writing 32-bit floating point (REAL) values.

§   Supports all three modes of operation (RTU, P1, N2).

♣   Requires this adapter firmware version or higher.

♠   Requires firmware version v1.05 or higher of the drive Add-on Profiles for Studio 5000 Logix Designer software.

♦   Chinese, Japanese, and Korean languages are supported at the time of publication.

Communication Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Serial Null Modem Adapter	1203-SNM	✓	✓	✓	✓	✓	✓
Smart Self-powered Serial Converter (RS232) includes 1203-SFC and 1202-C10 Cables	1203-SSS	✓	✓	✓	✓	✓	✓
Universal Serial Bus™ (USB) Converter includes 2m USB, 20-HIM-H10 and 22-HIM-H10 Cables	1203-USB	✓	✓	✓	✓	✓	✓
ControlNet T-tap straight	1786-TPS						✓
ControlNet T-tap right angle	1786-TPR				✓	✓	
Communication Carrier Card for PowerFlex 750-Series Frame 1 drives	20-750-20COMM-F1						✓
Communication Carrier Card for PowerFlex 750-Series Frame 2 or higher drives	20-750-20COMM						✓

I/O Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
24V DC Digital Inputs (6) with Analog I/O (4), Slot A ♠	20C-DA1-A			✓			
115V AC Digital Inputs (6) with Analog I/O (4), Slot A ♠	20C-DA1-B			✓			
115V AC Digital Outputs (3), Slot B ♠	20C-D01			✓			
ATEX Option Module with 1 Thermosensor Input Connection (requires 11-Series I/O Module below)	20-750-ATEX						✓ §
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132C-2R						✓ §
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In, 1 Relay and 2 Transistor Outputs	20-750-1133C-1R2T						✓ §
115V AC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132D-2R						✓ §
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262C-2R						✓ §
115V AC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262D-2R						✓ §
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In, 3 Digital Out, 1 Relay and 2 Transistor Outputs	20-750-2263C-1R2T						✓ §

♠   Only one card allowed per slot.

§   I/O option kits are not allowed in CIP motion mode.