


# Product Details and Certifications

Cross Reference RA Part Number: 8517CAA1A5

 **Product: 20-COMM-A**

Description: PowerFlex Architecture Class DPI Modbus/TCP  
Communication Adapter



Representative Photo Only (actual product may vary based on configuration selections)

~~CDHCBG'IN: CFA5HCB~~

---

Communications Kits

PF750-Series Modbus/TCP Communication Adapter

## Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive		AFE
		70	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	✓	✓ (1)	✓
DeviceNet™ Option Module	20-750-DNET		✓	
DeviceNet™ Communication Adapter	20-COMM-D	✓	✓ (1)	✓
Dual-port EtherNet/IP Option Module	20-750-ENETR		✓	
EtherNet/IP™ Communication Adapter	20-COMM-E	✓	✓ (1)	✓
Dual-port EtherNet/IP™ Communication Adapter	20-COMM-ER	✓		✓
HVAC Communication Adapter	20-COMM-H	✓	✓ (1)	✓
CANopen® Communication Adapter	20-COMM-K	✓	✓ (1)	✓
LonWorks® Communication Adapter	20-COMM-L	✓	✓ (1)	✓
<b>Modbus/TCP Communication Adapter</b>	<b>20-COMM-M</b>	<b>✓</b>	<b>✓ (1)</b>	<b>✓</b>
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	✓	✓ (1)	✓
ControlNet™ Communication Adapter (Fiber)	20-COMM-Q	✓	✓ (1)	✓
Remote I/O Communication Adapter (2)	20-COMM-R	✓	✓ (1)	✓
RS485 DF1 Communication Adapter	20-COMM-S	✓	✓ (1)	✓
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	✓	✓
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	✓	✓
External DPI I/O Option Board (3)	20-XCOMM-IO-OPT1	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM1	✓	✓	✓

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

(2) This item has Silver Series status.


(3) For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

## 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.

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 <sup>(1)</sup>
Cat. No.	Type				
20-COMM-B	BACnet MS/TP	Not Compatible			
20-COMM-C	ControlNet (Coax)	✓ v3.001 <sup>(2)</sup>	✓ v3.001 <sup>(2)</sup>	✓ <sup>(3)</sup>	✓ v3.001 <sup>(2)</sup>
20-COMM-D	DeviceNet	✓ <sup>(4)</sup>	Not Compatible		
20-COMM-E	EtherNet/IP	✓ v4.001 <sup>(2)</sup>	✓ v4.001 <sup>(2)</sup>	✓ <sup>(3)</sup>	✓ v4.001 <sup>(2)</sup>
20-COMM-H	RS-485 HVAC	✓ v2.009 <sup>(5) (2)</sup>	Not Compatible		
20-COMM-K	CANopen	✓ v1.001 <sup>(2)</sup>			
20-COMM-L	LonWorks	✓ v1.007 <sup>(2)</sup>			
 20-COMM-M	Modbus/TCP	✓ v2.001 <sup>(2)</sup>			
20-COMM-P	ControlNet (Fiber)	✓ v1.006 <sup>(2)</sup>	✓ v1.006 <sup>(2)</sup>		Not Compatible
20-COMM-Q	PROFIBUS DP	✓ v3.001 <sup>(2)</sup>	✓ v3.001 <sup>(2)</sup>	✓ <sup>(3)</sup>	✓ v3.001 <sup>(2)</sup>
20-COMM-R <sup>(6)</sup>	Remote I/O	✓ <sup>(4)</sup>	Not Compatible		
20-COMM-S	RS-485 DF1	✓ <sup>(4)</sup>			

(1) Chinese, Japanese, and Korean languages are supported at the time of publication.

(2) Requires this adapter firmware version or higher.

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

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

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

(6) This item has Silver Series status.

## Communication Accessories

Description	Cat. No.	Used with PowerFlex Drive		AFE
		70	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		✓	
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		✓	