


# Product Details and Certifications

Cross Reference RA Part Number: 8517CAA1D5

 **Product: 20-COMM-D**

Description: PowerFlex Architecture Class 1 Communication Adapter



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

~~CDHCBG'IN: CFA5HCB~~

Communications Kits

PF750-Series 1 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)        | ✓        |
| Modbus/TCP Communication Adapter             | 20-COMM-M        | ✓                         | ✓ (1)        | ✓        |
| 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    |                           | ✓            |          |
| <b>PROFIBUS™ DP Communication Adapter</b>    | <b>20-COMM-P</b> | <b>✓</b>                  | <b>✓ (1)</b> | <b>✓</b> |
| 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<br>for I/O Connections<br>(Implicit and Explicit Messaging) | Accesses Ports 7 and Higher<br>(I/O, Explicit Messaging) | Supports Drive Add-on<br>Profiles | Supports Asian-<br>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                    | 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    |                           | ✓       |     |