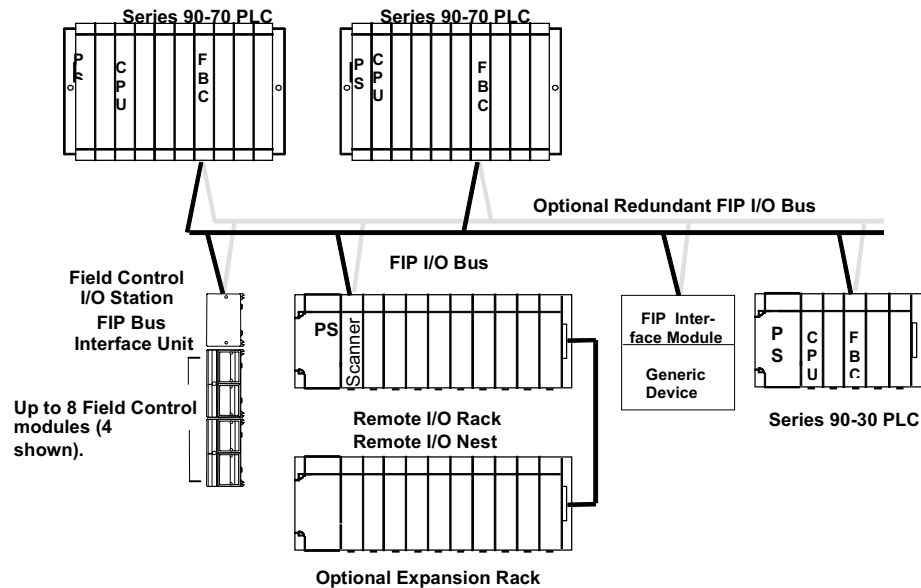# IC693BEM340 FIP Bus Controller (FBC) Module

The Series 90-30 PLC FIP (Factory Instrumentation Protocol) Bus Controller (catalog number IC693BEM340) is used to interface a FIP I/O serial bus to a Series 90-30 PLC.
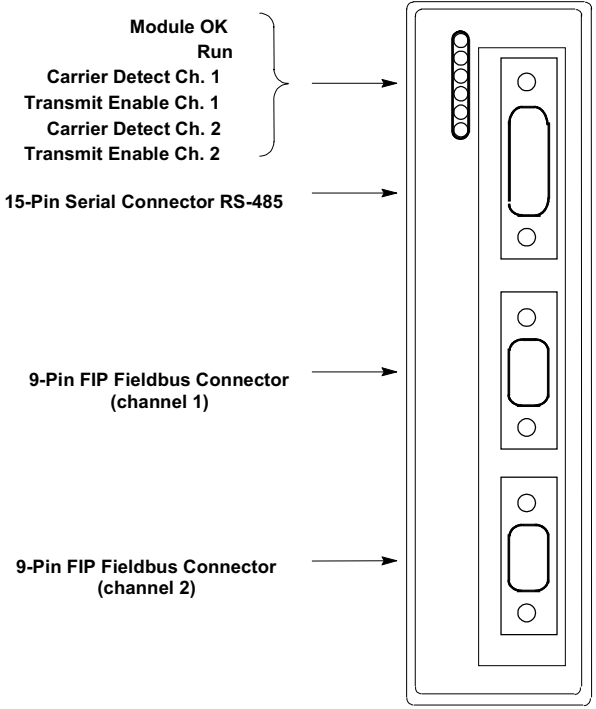

Figure 8-6. Example of FIP I/O System Configuration

A FIP bus is used primarily for I/O control. It also is used to store configuration data to remote devices and to report faults. Devices that can be on a FIP bus in a Series 90-30 PLC system include:

■ **Series 90-70 PLC**, interfaced to a FIP bus by a FIP Bus Controller.

■ **Field Control Stations**, Field Control I/O modules that are interfaced to the bus via a FIP Bus Interface Unit (BIU).

■ **Remote Drops**, Series 90-30 I/O racks that are interfaced to the bus via FIP Remote I/O Scanner Modules. Each remote drop can include one 5- or 10-slot main rack, one 5- or 10-slot expansion rack and any mix of discrete and analog I/O modules.

■ **Generic Devices**, such as general-purpose computers that are interfaced to the bus via a FIP Interface Module.

The FIP Bus Controller is a standard, rack-mounted Series 90-30 PLC module. It plugs easily into the PLC's backplane. The latch on the bottom of the module secures it in position.

Module OK
Run
Carrier Detect Ch. 1
Transmit Enable Ch. 1
Carrier Detect Ch. 2
Transmit Enable Ch. 2

15-Pin Serial Connector RS-485

9-Pin FIP Fieldbus Connector
(channel 1)

9-Pin FIP Fieldbus Connector
(channel 2)

Figure 8-7. Series 90-30 FIP Bus Controller

There are no DIP switches or jumpers to set on the module.

The Series 90-30 FIP Bus Controller has six status LEDs, an RS-485 serial port, and two identical FIP bus connectors.

Status LEDs

The 6 LEDs on the front of the FIP Bus Controller display module status and communications activity.

Serial Port

The 15-pin serial port is used to connect a computer for upgrading the operating firmware of the Bus Controller and for configuring by an external configuration tool.

FIP Bus Connectors

The two 9-pin connectors on the FIP Bus Controller provide for attachment of one or two FIP busses. The two busses provide a redundant bus capability.