

1 DESCRIPTION

The SMC TCP/IP driver hereafter called the SMT driver can be used for inter-bridge (FieldServer to FieldServer) communications to perform tasks like mirroring data arrays between FieldServers.

1.1 Connection Facts

FieldServer Mode	Node	Comments
Client	N/A	Inter-bridge communications to virtually an unlimited number of FieldServers. Memory limitations may apply when a large number of Nodes are used.
Server	N/A	Inter-bridge communications to virtually an unlimited number of FieldServers. Memory limitations may apply when a large number of Nodes are used.

2 FORMAL DRIVER TYPE

Ethernet

Client or Server

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x30	Yes
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-ED2	Yes
ProtoCessor FPC-ED4	Yes

4 CONNECTION INFORMATION

Connection type: Ethernet
 Ethernet Speeds Supported: 10Base-T, 100Base-T¹

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Inter-bridge Communications between all FieldServers listed in the compatibility matrix	Factory

6 COMMUNICATIONS FUNTIONS – SUPPORTED FUNCTIONS AT A GLANCE

6.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Bit	1 bit
Byte	8 bits
Signed and unsigned Integer	16 bits
Signed and unsigned Long Integer	32 bits
Float	32 bits

6.2 Read Operations Supported

FieldServer as a Client	FieldServer as a Server
Read Data Array Value (All data types)	Provide Data Array Value (All data types)

¹ Not all FieldServer models support 100BaseT. Consult the appropriate instruction manual for details of the Ethernet speed supported by specific hardware.

6.3 Write (Control) Operations Supported

FieldServer as a Client	FieldServer as a Server
Write Data Array Value (All data types)	Accept Data Array Value (All data types)

6.4 Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, and as such, programming messages are not required

6.5 Unsupported Devices or Protocol Options

Device	Details
Non FieldServer bridge devices	Proprietary Field Server protocol