



Driver Version: 1.01
Document Revision: 1

FieldServer Driver FS-8704-01 SMC TCP/IP

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.

Fieldserver Mode	Nodes	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.

Formal Driver Type

Ethernet
Client or Server

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FS-x40	Yes
FS-x30	Yes

Connection Information

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

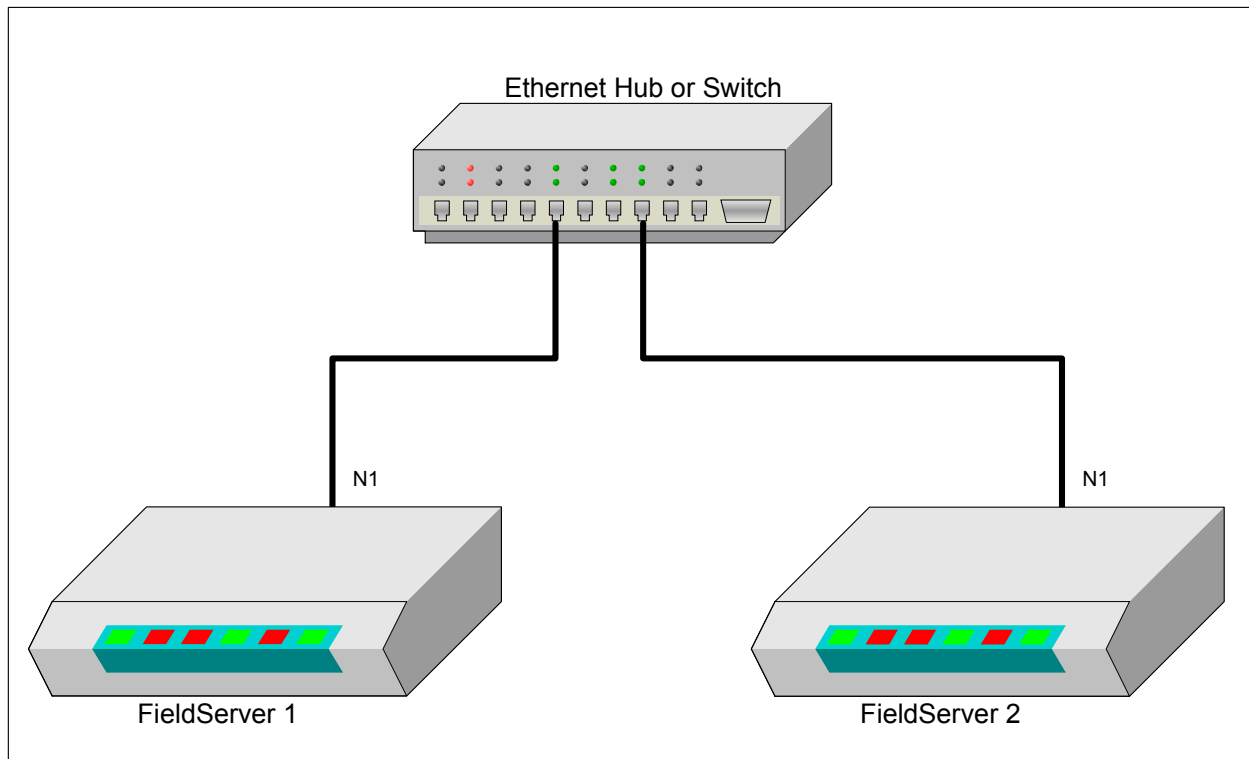
¹ Not all FieldServer models support 100BaseT. Consult the appropriate instruction manual for details of the Ethernet speed supported by specific hardware.



Devices tested

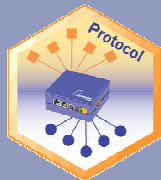
Device	Tested (FACTORY, SITE)
Inter-bridge Communications between all FieldServers listed in the compatibility matrix	Factory

Connection configurations



Connection Notes

Please use the appropriate category Ethernet cable, i.e. at least CAT5 for a 100Mb/s connection.



Communications functions - Supported functions at a glance:

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

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)

Write (Control) Operations supported

FieldServer as a Client	FieldServer as a Server
Write Data Array Value (all Data Types)	Accept Data Array Write (all Data Types)

Unsupported Functions and Data Types

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

Unsupported Devices or Protocol Options

Device	Details
Non FieldServer bridge devices	Proprietary FieldServer protocol



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