FieldServer Driver
FS8705-10
'LanSTAR' Serial Driver
Suitable when the LanStar must be retained.

Description

This driver is used to exchange data between a FieldServer and a 'MicroSTAR' devices by polling the LanStar they are connected to. When this driver is used the gateway must be connected to 1 of the 4 ports on the Lanstar.

Each MicroSTAR device has 4x AO, 4x AI, 4x DI, 4x DO and 4x Counters. Setpoints, virtual Digital Outputs, any virtual points or virtual Microstars all reside in the memory of the LanStar and are thus accessible using this driver.

The driver can monitor the status of these points and write to the outputs.

This is an active client driver. The FieldServer is the client. The LanSTAR devices are the passive servers. The Client sends messages and processes responses from the LanSTAR's.

The driver is a serial driver using a RS232 serial ports to connect between the FieldServer and the LanSTAR's..

The driver is fully compatible with other FieldServer drivers and meets FieldServer's quality assurance standards. The driver was developed by Chipkin Automation Systems, an Approved FieldServer Integrator.

Only Client functionality have been implemented. This means that you can use the driver as a client to monitor/command the devices. Server functionality is not supported thus you cannot use it a server to make another type of device appear as if it were a LanSTAR device.

Fieldserver Mode	Nodes	Comments
Active Client	32	A maximum of 16 devices may be connected per trunk. This is a limitation of the protocol which only allows 32 possible addresses as 2 trunks can be connected to one LanStar.

Formal Driver Type

Serial
Active Client

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010-01	Yes,
FS-x2011-01	Yes,
FS-x40	Yes,
FS-X30	Yes
QuickServer's	Any with RS232 Port

Connection Information

Connection type: RS232

Baud Rates: Driver Supports : 110; 300; 600; 1200; 2400; **4800**; 9600; 19200; 28800; 38400; 57600; 115200 Baud
MicroSTAR supports: 4800

Data Bits: Driver Supports : 7,**8**
MicroSTAR supports: 8

Stop Bits: Driver Supports : **1**,2
MicroSTAR supports: 2

Parity: Driver Supports : Odd, **Even**, None
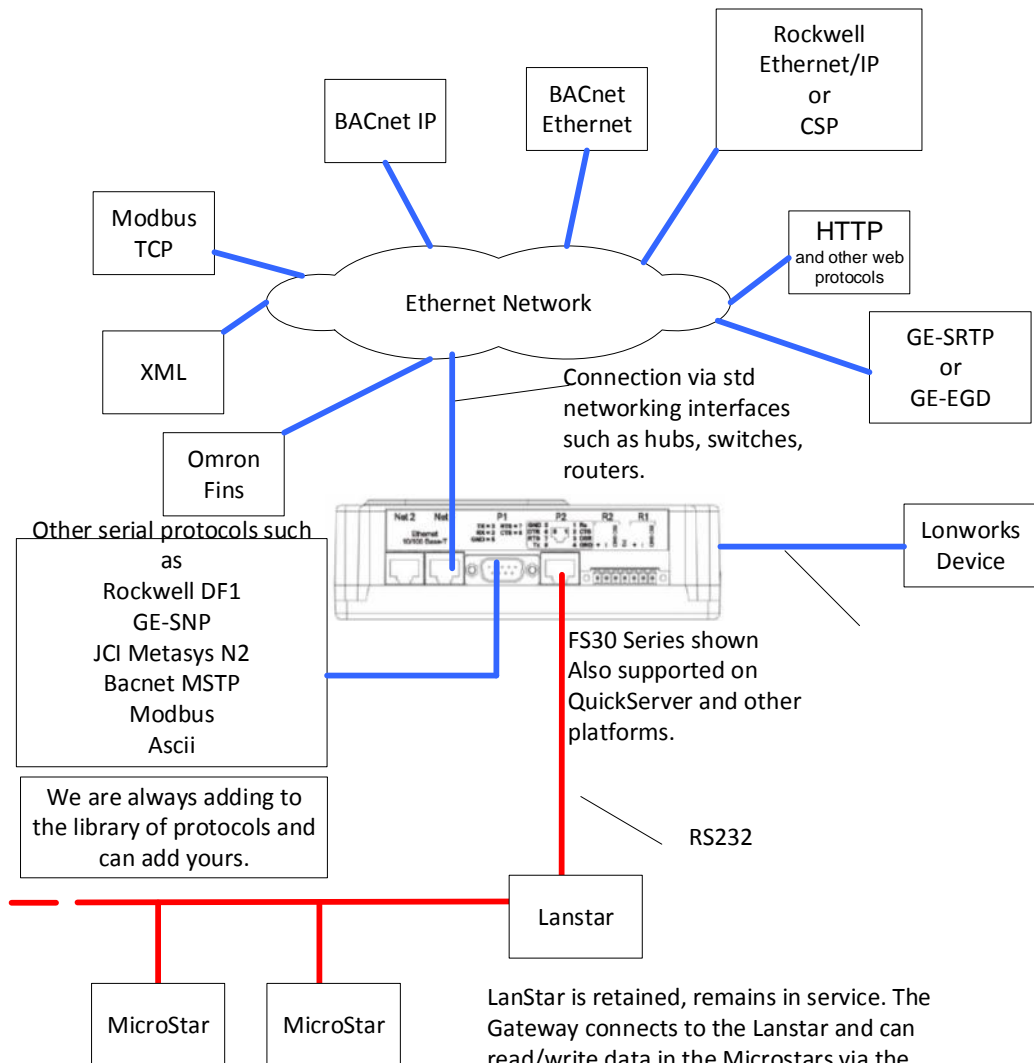*MicroSTAR* supports: none

Hardware interface: N/A

Multidrop Capability   Yes

Devices tested

Device	Tested (FACTORY, SITE)
Barrington MicroStar-II Std Barrington LanStar	Office

Connection configurations

FS30 shown as representing FS20, FS30 and FS40

Connection via std networking interfaces such as hubs, switches, routers.

FS30 Series shown Also supported on QuickServer and other platforms.

RS232

LanStar is retained, remains in service. The Gateway connects to the Lanstar and can read/write data in the Microstars via the Lanstar. **A great solution if you need to keep the LanStar in service.**

**FS-8705-26 Barrington LanStar Protocol
(Get Microstar data via the LanStar)**

Communications functions

Function	Notes
Poll Request	Can Write to Do,Ao and SP points including virtual Do's.
Poll Request	Read. Can read Ai,Ao,Di,Do,SP,Counters including virtual DO's on a real MicroSTAR

Driver cannot read/write data to virtual microSTAR's.

Support

Please contact Chipkin Automation Systems directly for driver support.

Revision History

Date	Resp	Format	Driver Ver.	Doc. Rev.	Comment
2014Sep10	PMC		0.00	0	Created.