FieldServer Driver
FS8705-27
'Barrington MicroSTAR Snoop' Serial Driver

Description

If you have a site with a trunk(s) of Microstar's connected to a Lanstar and you cannot remove the Lanstar then this protocol driver can work for you. It connect to the trunk and listens (snoops) on the messages between the LanStar and the Microstars.

The driver is completely passive. It never sends any messages and will not affect network activity in any way if installed correctly.

As the driver is passive it relies on the messages between the LanStar and the MicroStars. Thus, if for some reason your Lanstar has not been configured to talk to the Microstars or they are not reading data from the Microstars then this driver will have no messages to snoop on and therefore will not be useful.

Each MicroStar devices has 4x AO, 4x AI, 4x DI, 4x DO and 4x Counters. The driver can monitor the status of these points and cannot write to the outputs.

Setpoints, virtual Digital Outputs, any virtual points or virtual Microstars all reside in the memory of the LanStar and are not accessible using this driver. You will need the CAS Barrington Lanstar Driver. Ask our sales team.

The Microstar devices are daisy chained on a RS485 network.

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.

This driver can only act as a passive client. It cannot be used to simulate a Microstar device.

Fieldserver Mode	Nodes	Comments
Passive Client	16	A maximum of 16 devices may be connected per trunk. This is a limitation of the protocol which only allows 16 possible addresses.

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 RS485 port.

Connection Information

Connection type: EIA485

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
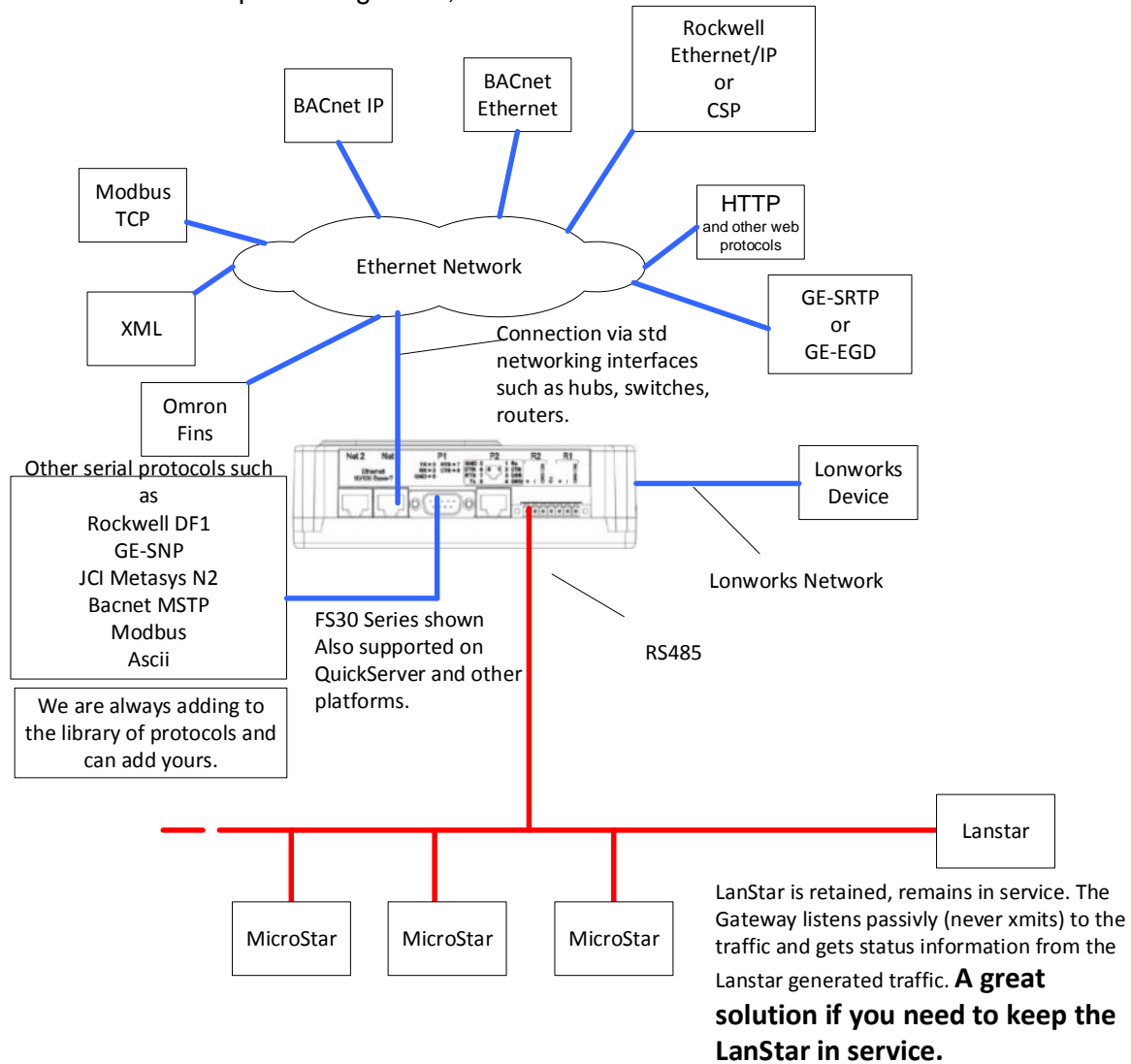*MicroSTAR* supports: none

Hardware interface: N/A

Multidrop Capability   Yes

Devices tested

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

Chipkin
Automation Systems

Connection configurations

FS30 shown as representing FS20, FS30 and FS40 and Quickservers

BACnet IP

BACnet Ethernet

Rockwell Ethernet/IP or CSP

Modbus TCP

HTTP and other web protocols

Ethernet Network

XML

GE-SRTP or GE-EGD

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

Omron Fins

Lonworks Device

Other serial protocols such as
Rockwell DF1
GE-SNP
JCI Metasys N2
Bacnet MSTP
Modbus
Ascii

FS30 Series shown Also supported on QuickServer and other platforms.

Lonworks Network

RS485

We are always adding to the library of protocols and can add yours.

Lanstar

MicroStar

MicroStar

MicroStar

LanStar is retained, remains in service. The Gateway listens passivly (never xmits) to the traffic and gets status information from the Lanstar generated traffic. **A great solution if you need to keep the LanStar in service.**

FS-8705-27 Barrington MicroStar Snoop Protocol
(Lanstar Retained)

Communications functions

Function	Notes
Poll Request with Download Data	Writes 4xAO values and 4xDO states.
Poll Request	Reads all data for all inputs. Analog inputs are 16 bits values.

Support

Please contact Chipkin Automation Systems directly for driver support.

The following responses are supported.

Revision History

Date	Resp	Format	Driver Ver.	Doc. Rev.	Comment
17Aug06	PMC		0.00	0	Created.
2014Sep10	PMC			1	Updated.