

FS-8705-27 – ‘Barrington MicroSTAR Snoop’ Serial Driver

DATASHEET – Rev 2

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.



CONNECTION FACTS

FIELDSEVER MODE	NODES	COMMENTS
-----------------	-------	----------

FS-8705-27 Barrington MicroSTAR Snoop

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

FIELD SERVER MODEL	COMPATIBLE
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: 1
Parity: Driver Supports: Odd, Even, None
MicroSTAR supports: none
Hardware Interface: N/A
Multidrop Capability: Yes

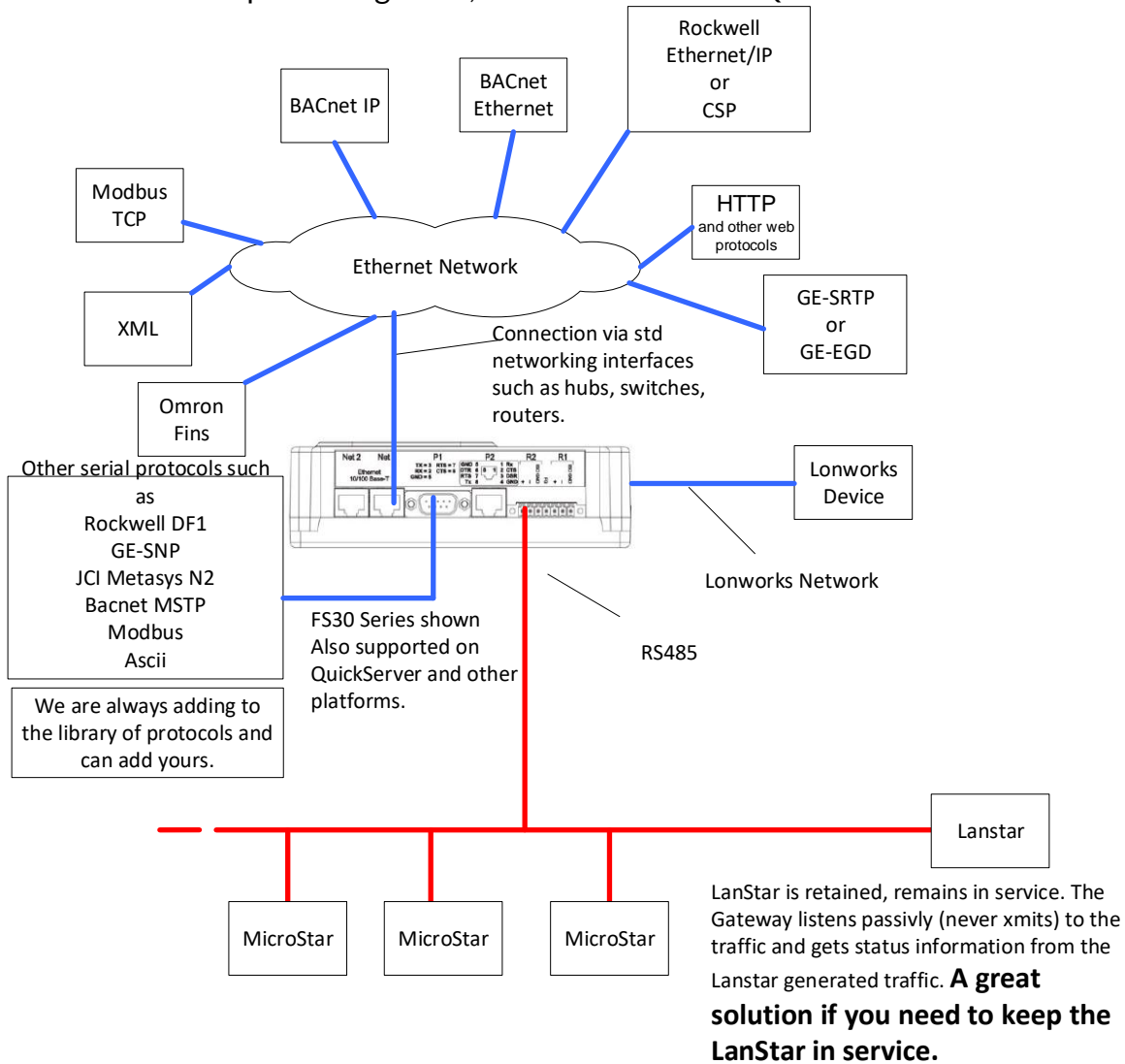
DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
Barrington MicroStar-II Std	Office

FS-8705-27 Barrington MicroSTAR Snoop

CONNECTION CONFIGURATIONS

FS30 shown as representing FS20, FS30 and FS40 and Quickservers



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.

FS-8705-27 Barrington MicroSTAR Snoop

CUSTOMER SUPPORT

Barrington MicroSTAR Snoop Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and LonWorks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we are there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

Sales and Customer Service

Toll Free: +1 866 383 1657

Email: salesgroup1@chipkin.com

All contents are Copyright © 2000-2021 Chipkin Automation Systems Inc. All rights reserved.
This document is Chipkin Public Information

REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
17 Aug 2006	PMC	0.00	0	Created
10 Sept 2014	PMC	0.00	1	Updated
15 Jun 2021	YC	0.00	2	Updated to latest template