

FS-8705-08 – GE Total Lighting Control

DATASHEET – Rev 2

DESCRIPTION

This serial driver allows connectivity to a GE-TLC network by providing data transfer to the RLINK device. The RLINK device is provided by GE Lighting Controls as a gateway between its proprietary network and building automation networks. Thus, to provide data transfer between a 3rd party protocol such as BACnet, it is necessary to connect the BACnet network to the RLINK by means of a FieldServer.

The driver may be configured as a client or server. The Client functionality is fully documented and supported. The FieldServer cannot be used as a substitute for the RLINK device – for this reason the server-side functionality is not documented. If you are interested using the server side please contact the sales group.

As a client the driver is capable of:

- polling for status data,
- sending commands to operate the relays,
- sending commands as if a PSS switch had been operated,
- receiving unsolicited status messages from the TLC network.

The driver can be configured as a **BACnet adapter** – a device which reads a predefined data set and automatically make its available as a set of BACnet data objects. More information is available on request.

The driver can support a simultaneous connection for a PC running TLC configuration software such as WinControl. More information is available on request. This feature has limitations documented in the manual. If you intend to use this feature you must understand the limitations before making your purchase.



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CONNECTION FACTS

FIELD SERVER MODE	NODES	COMMENTS
Client	9999	Only one RLINK device may be connected to a single port on the FieldServer. However, each RLINK device may form part of a network of Lighting Panels (nodes). The driver does not limit the number of nodes that may be polled via the RLINK.
Server	N/A	

FORMAL DRIVER TYPE

Serial
Client only

COMPATIBILITY

FIELD SERVER MODEL	COMPATIBLE
FS-x2010	Yes
FS-x2011	Yes
FS-x40	Yes
FS-x30	Yes with the limitation that only P2 can be used to connect to a Rlink Device.

CONNECTION INFORMATION

Connection Type: RS232
Baud Rates: The RLINK device self senses the baud rates in this sequence (in this sequence: 300, 19200, 9600, 4800, 2400, 1200).
The FieldServer supports all standard baud rates between 300 and 115200

Data Bits:	RLINK supports 8,	Driver supports 7,8
Stop Bits:	RLINK supports 1	Driver supports 1,2
Parity:	RLINK supports Even	Driver supports Odd, Even, None

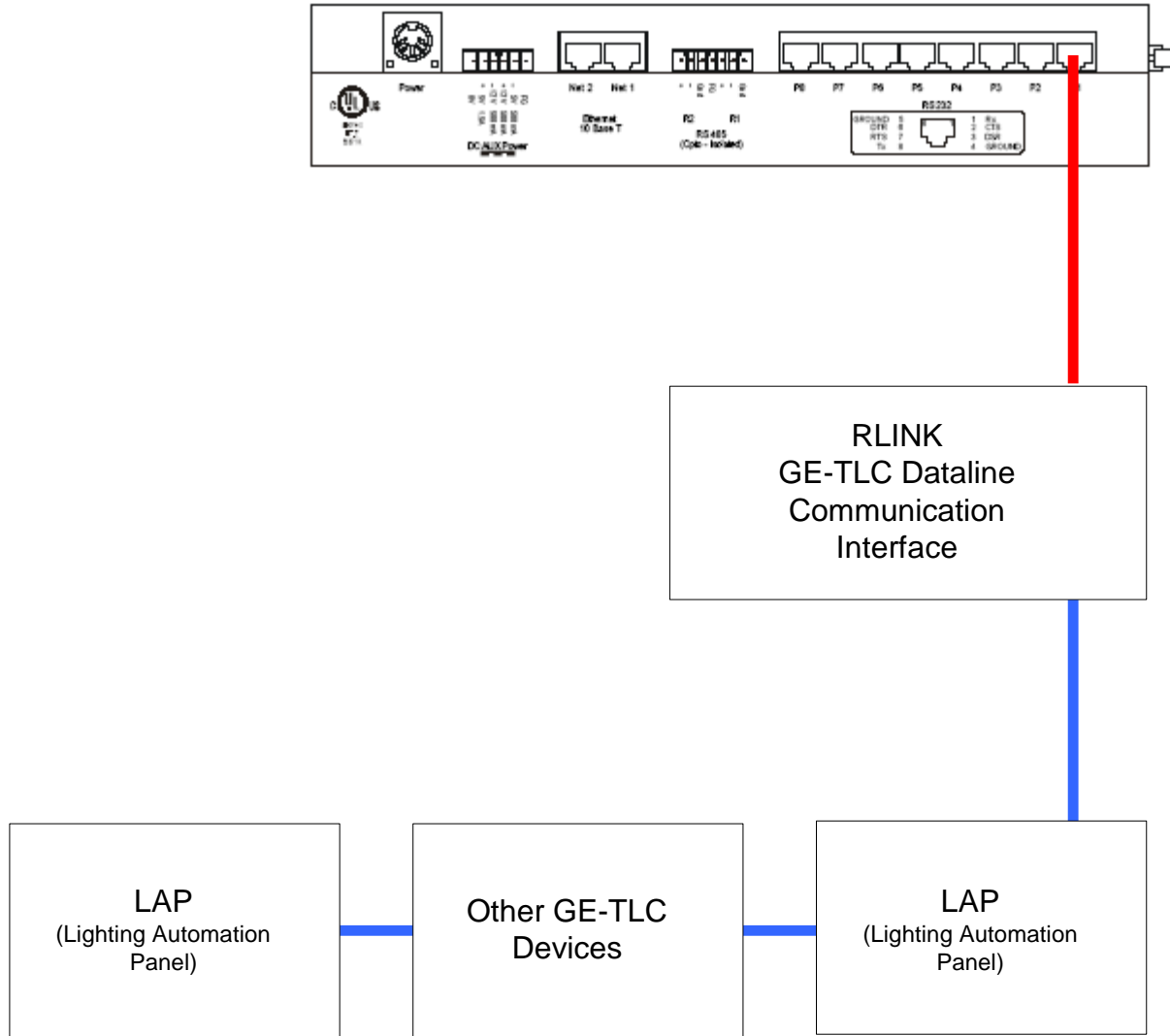
Hardware Interface: N/A
Multidrop Capability: No

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
GE TLC Dataline Communication Interface Module. (RLINK)	Factory

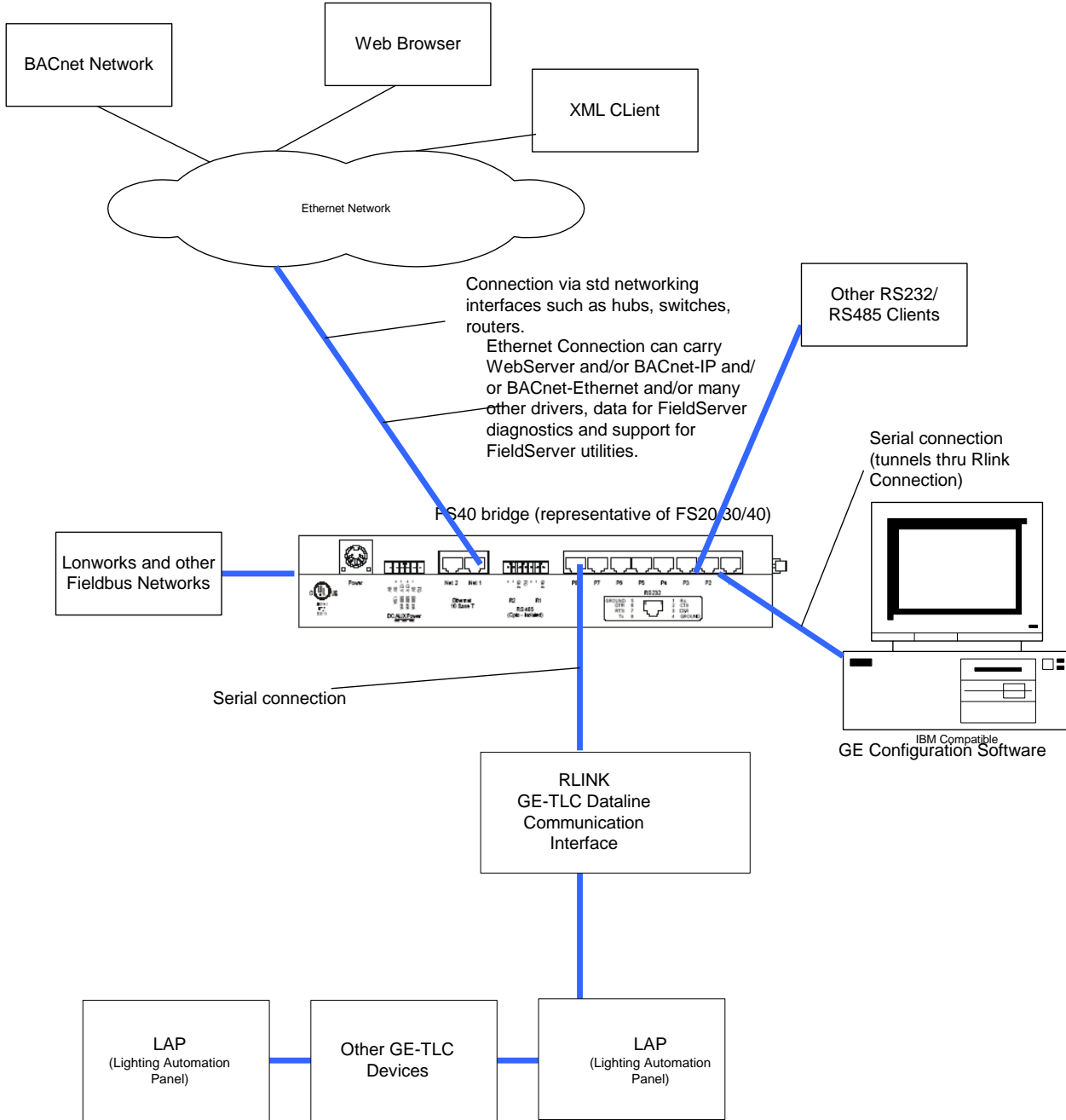
CONNECTION CONFIGURATIONS

FS40 bridge (representative of FS20/30/40)



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Configuration as a Tunnel for the GE Configuration Software



CONNECTION NODES

None

COMMUNICATION FUNCTIONS

Supported Datatypes

This driver does not type data.

Read Operations supported

FIELDSEVER AS A CLIENT	FIELDSEVER AS A SERVER
Read Relay Status:	N/A
Read Relay Failures	
Read Module Status	
Read Link Status	

Write (Control) Operations supported

FIELDSEVER AS A CLIENT	FIELDSEVER AS A SERVER
Override Relay Status:	N/A
Command Relay Schedule Action:	
Command Relay Cleaning Action:	
Command Relay Shed Action:	
Initiate PSS action	

Unsolicited Message that are supported

FIELDSEVER AS A CLIENT	FIELDSEVER AS A SERVER
Relay Status Chage:	N/A
Relay Failure Change:	
Link Status Change:	
Module Status Change:	

Unsupported Functions and Data Types

FUNCTION	REASON
It is possible that the RLINK device could send additional unsolicited messages. The published protocol does not identify additional messages but it is possible that future RLINK/TLC network firmware may have additional messages.	

CUSTOMER SUPPORT

GE Total Lighting Control 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.

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REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
17 Oct 2005	PMC	1.00a	1	Issued for Release
28 Dec 2005	PMC	1.01h	0	Added X30 and noted limitation on port use.
26 May 2020	PMC	1.01m	0	Added note about tunnel limitation
7 Jun 2021	YC	1.01m	2	Updated to new template