FieldServer VADD Driver
FS-8705-08
GE-TLC
(GE Total Lighting Control)

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.

Fieldserver 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 Matrix

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

© **Chipkin Automation Systems**, Box 211, 3495 Cambie St, Vancouver, BC, Canada, V5Y 4R3
▪ **Tel:** 1866 636 5400, ▪ **Fax:** (416) 915-4024 ▪
Email: dfs@chipkin.com   **Website:** www.chipkin.com
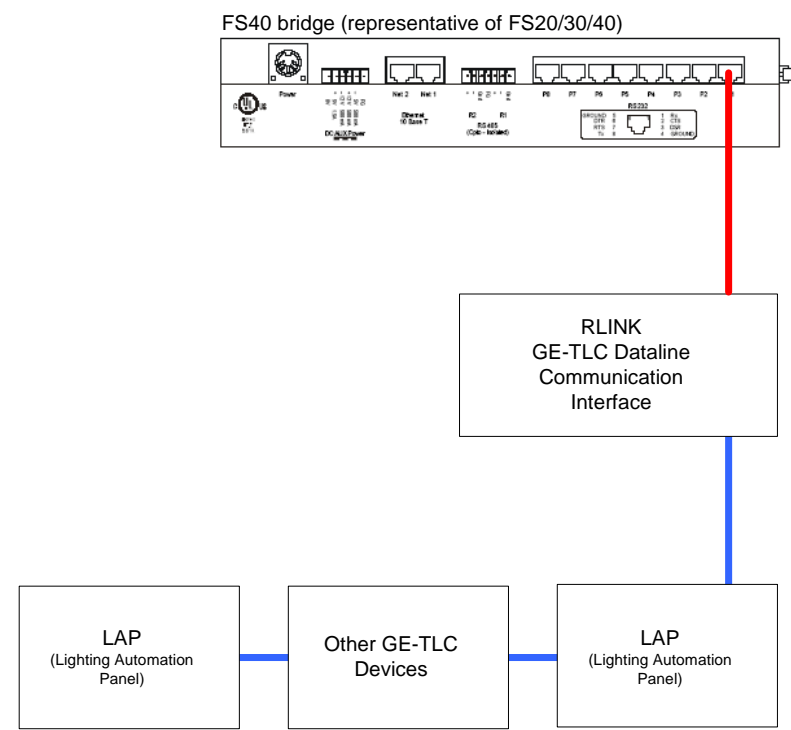
Connection Information

Connection type: RS-232
 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)

RLINK
GE-TLC Dataline
Communication
Interface

LAP
(Lighting Automation
Panel)

Other GE-TLC
Devices

LAP
(Lighting Automation
Panel)

Connection Notes

None

Communications functions - Supported functions at a glance:

Data Types Supported

This driver does not type data.

Read Operations supported

FieldServer as a Client	FieldServer as a Server
Read Relay Status:	N/A
Read Relay Failures	
Read Module Status	
Read Link Status	
Write Analog Setpoints:	

Write (Control) Operations supported

FieldServer as a Client	FieldServer as a Server
Override Relay State	N/A
Command Relay Schedule Action	
Command Relay Cleaning Action:	
Command Relay Shed Action	
Initiate PSS action	

Unsolicited Message that are supported

FieldServer as a Client	FieldServer as a Server
Relay status change	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.	

Support

This driver was developed by Chipkin Automation Systems (CAS), a FieldServer Approved Integrator®. CAS are proud to provide support for the driver. For support please call CAS at (604) 675-9025.

Revision History

Date	Resp	Format	Driver Ver.	Doc. Rev.	Comment

Tel: 1866 636 5400, **Fax:** (416) 915-4024
Email: dfs@chipkin.com　　　　**Website:** www.chipkin.com