FS-8705-102 – SACN

DATASHEET – Rev 1

DESCRIPTION

The SACN Driver allows the FieldServer to transfer data from devices over Ethernet using the SACN protocol. The SACN Driver uses UDP. The default port is 5568 and is configurable.

The driver was developed for the streaming Architecture for Control Networks (SACN) protocol. SACN is the common name for the ANSI E1.31-2016 standard and is used to transmit zero start code DMX data over a network in a way that is compatible with the full CAN standard, ANSI E1.17-2010.

The FieldServer emulates a passive Server, listening on the SACN network. When configured, the FieldServer listens for SACN messages containing DMX slot data. This data is stored on the FieldServer to be mapped to other protocols or simply to be viewed.

CONNECTION FACTS

This table summarizes the number of connections this driver supports for each of its modes.

FIELDSERVER MODE	NODES	COMMENTS
Client	0	The FieldServer cannot be configured as a SACN client
Server	1	The server mode supports setting up one SACN passive server that can receive packets from multiple SACN clients

FORMAL DRIVER TYPE

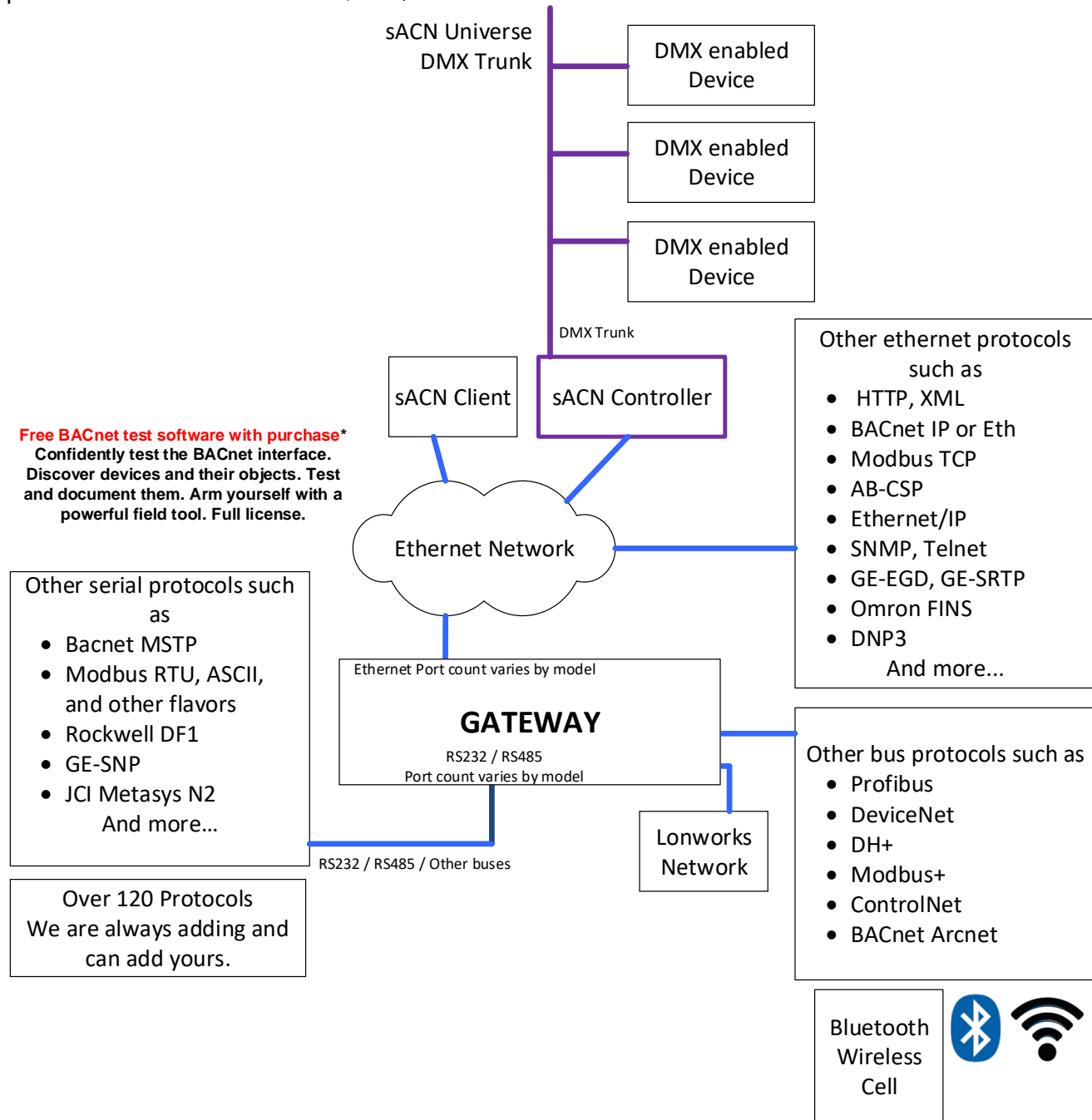Ethernet, Passive Server

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
QuickServer FS-QS-1xxx	Yes
QuickServer FS-QS-2xxx	Yes
QuickServer FS-QS-3xxx	Yes

FS-8705-101 – sACN DRIVER

CONNECTION INFORMATION

Connection Type: Ethernet
Ethernet Speeds Supported: 10Base-T, 100Base-T

CONNECTION CONFIGURATIONS

This block diagram lists common network connections that can monitor SACN data using other protocols like Modbus® RTU/TCP, BACnet® and HTTP.

sACN Universe
DMX Trunk

DMX enabled Device

DMX enabled Device

DMX enabled Device

DMX Trunk

sACN Client

sACN Controller

Free BACnet test software with purchase*
Confidently test the BACnet interface. Discover devices and their objects. Test and document them. Arm yourself with a powerful field tool. Full license.

Ethernet Network

Other ethernet protocols such as
- HTTP, XML
- BACnet IP or Eth
- Modbus TCP
- AB-CSP
- Ethernet/IP
- SNMP, Telnet
- GE-EGD, GE-SRTP
- Omron FINS
- DNP3
        And more...

Other serial protocols such as
- Bacnet MSTP
- Modbus RTU, ASCII, and other flavors
- Rockwell DF1
- GE-SNP
- JCI Metasys N2
        And more...

Ethernet Port count varies by model

GATEWAY

RS232 / RS485
Port count varies by model

RS232 / RS485 / Other buses

Lonworks Network

Other bus protocols such as
- Profibus
- DeviceNet
- DH+
- Modbus+
- ControlNet
- BACnet Arcnet

Over 120 Protocols
We are always adding and can add yours.

Bluetooth Wireless Cell

COMMUNICATION FUNCTIONS

The FieldServer is configured as a passive server. This means that it listens for any SACN packets that are sent on the network. As such, the FieldServer must be installed and configured to be on the same network as the SACN client that is sending lighting commands to the SACN controllers.

The SACN driver is a read only driver and cannot control or change any data on the downstream SACN controllers.

CUSTOMER SUPPORT

SACN 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!

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APPENDIX A: DEVICES TESTED

This tables summarize the SACN devices that have been tested. Other devices may be supported.

DEVICE	TESTED (FACTORY/SITE)
scanView Software	Factory

REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
25 Nov 2020	ACF	0.0.1	0	Created
21 Jun 2021	YC	0.0.1	1	Updated to latest template