SAIA®S-Bus Data-Mode Serial & Ethernet UDP/IP

Product Profile

1 Description

SFSBUSDM is a DLL driver that allows a SUPER-FLASH application to manage the communication with SAIA®PCD PLCs by using the SAIA®S-Bus Data-Mode protocol through serial lines (RS232, RS232 with Modem, RS422/485, TTY/20mA current loop) and network (Ethernet UDP/IP).

The use of this driver requires a specific hardware or software activation. Without this, the communication with the peripheral will last only 15 minutes.

2 Features

SFSBUSDM allows to manage:

- the communication with more SAIA®PCD PLCs up to a maximum of 256
- attempting operations on the single unit in case of communication errors
- the inactivity time on the single unit in case of communication errors
- reading operations for the Input data type (1 bit) in single or array mode
- reading/writing operations for the Output data type (1 bit) in single or array mode
- reading/writing operations for the Flag data type (1 bit) in single or array mode
- reading/writing operations for the Integer Register data type (32 bit) in single or array mode
- reading/writing operations for the Floating-Point Register data type (32 bit floating-point) in single or array mode
- reading/writing operations for the Counter data type (32 bit) in single or array mode
- reading/writing operations for the Timer data type (32 bit) in single or array mode
- reading/writing operations for the Integer Data-Block data type (32 bit) in single or array mode
- reading/writing operations for the Floating-Point Data-Block data type (32 bit floating-point) in single or array mode

3 Restrictions

SFSBUSDM has the following restrictions:

- the maximum number of SAIA®PCD PLCs that can be connected directly through Ethernet UDP/IP is 32

4 End-user knowledge requirements

The end-user knowledge requirements for using SFSBUSDM are:

- use of LINK DRIVER in SUPER-FLASH
- minimum knowledge about serial connections with RS232, RS232 Serial lines through Modem, RS422/485 and TTY/20mA current loop
- minimun knowledge about Ethernet UDP/IP connections
- minimum knowledge about SAIA®PCD PLCs' databases

5 System requirements

The system requirements for using SFSBUSDM are:

- One of the following operating systems:
  - Microsoft Windows 9x
  - Microsoft Windows NT4
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP
- If the application using the driver is generated with SUPER-FLASH ROYALTY-FREE: WRUNFILE 3.2
  if the application using the driver is generated with SUPER-FLASH RUNTIME with the use of a hardware protection key:
  WRUNFILE 3.3
  if the application using the driver is generated with SUPER-FLASH RUNTIME with the use of a software protection key:
  WRUNFILE 3.8

6 Package description

SFSBUSDM is distributed on CD-ROM and is also available for download in the Download section of Automa website (http://www.automa.it). It contains:

- DLL DRIVER (without source files)
- User guide in PDF format
- SUPER-FLASH demo application
- Hardware (LPT or USB) or software activation key