Mini-Circuits®

ISC-2425-25+

Guidelines on how to interface with Programable Logic Controllers

AN-50-006

1. Connectivity between the ISC-2425-25+ and a PLC system

The ISC-2425-25+ connects to any host computer through a USB virtual com port.

The USB virtual COM port is a software interface that enables applications to access a USB device as if it were a built-in serial port.

In this case the USB virtual COM-port device functions as bridge between USB and for example an RS-232 asynchronous serial interface.

2. Some useful example links

Beckhoff:
https://download.beckhoff.com/download/document/automation/twincat3/TF6340_TC3_Serial_Communication_EN.pdf

Siemens:
https://www.automation.com/en-us/articles/2003-1/how-to-connect-a-siemens-plc-to-usb

Siemens S7:
To link a UART hardware to your S7 CPU 314C, all you need to do so is add a serial interface on your S7 PLC (and decide on the protocol and do some programming).

Since the CP314C does come as a PtP (Point to Point) version, it may already have a serial port on board, if not, add a CP340 or CP341 to it and you can link your "UART" to your S7." (https://support.industry.siemens.com/tf/ww/en/posts/how-to-connect-s7-300-with-sensor-output-uart-signal/69742)

AN-50-006   Rev.: OR   DCO-000756   (01/26/22)   File: AN-50-006.docx
This document and its contents are the property of Mini-Circuits.   Page 2 of 2

Mini-Circuits®   ISC-2425-25+ GUIDELINES