

OVERVIEW

The SS20 is a datacom interface device for SCADA & industrial control applications where two independent host or master devices need access to a slave device or network of slave devices, and/or to provide communications failure detection of serial networks.

The SCADASwitch SS20 has two RS-232 input ports and one output port that has both RS-232 and RS-485 interfaces. The SS20 also has a USB connection for configuration, Local operator interface to connected devices, and built in protocol analyzer. With low power draw, small size, DIN rail mounting, and Class I div 2 rating it is ideal for use in remote EFM/RTU applications.

FEATURES

- Class I div 2 certification
- Integrated protocol analyzer
- Galvanically isolated RS-485 output with selectable termination
- Low power draw
- Compact size
- DIN rail Mounting
- Easy configuration via included software
- USB connectivity for modern computers lacking RS-232 ports

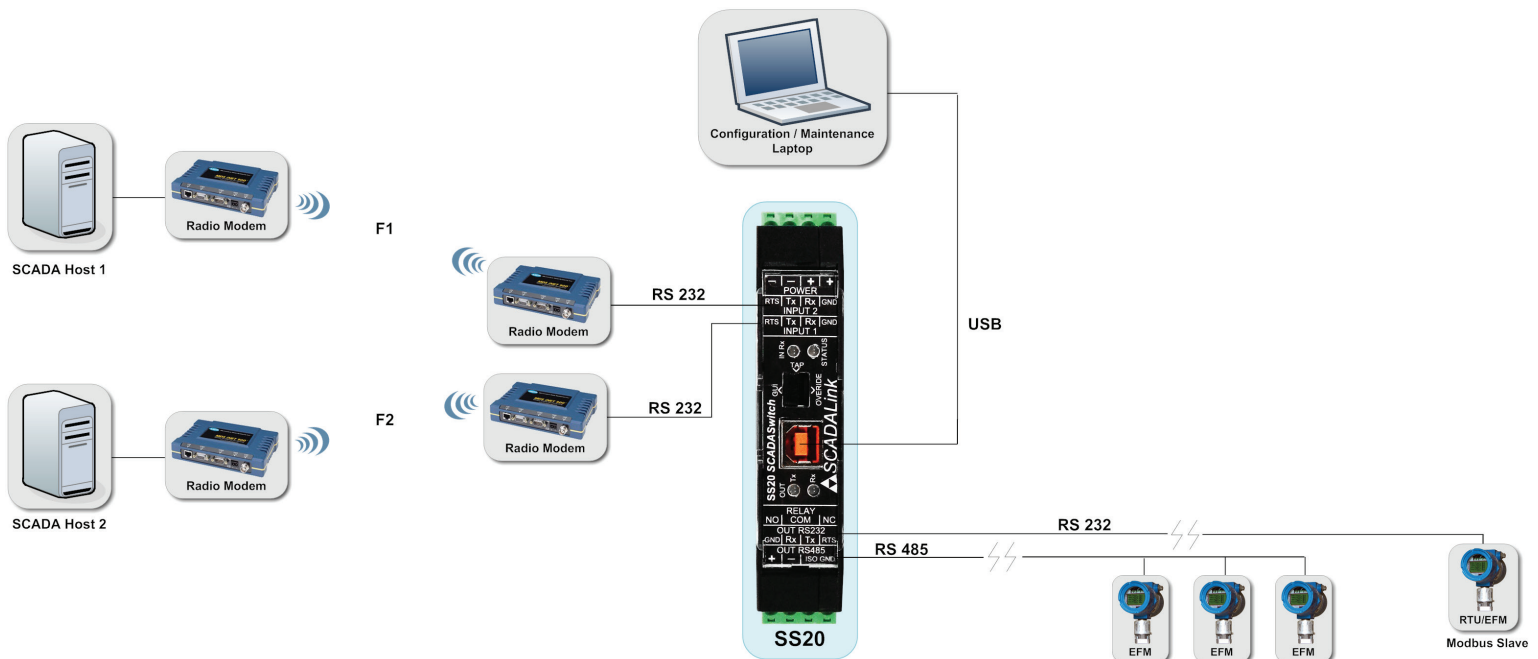
APPLICATION

- PLC, RTU, EFM, Power Meter, Data Logger
- Pipeline SCADA
- Oil & Gas RTU/EFM SCADA

TYPICAL APPLICATION EXAMPLE

MODBUS MULTIPLEXING MODE

Allows 2 SCADA hosts to simultaneously poll the same network of RTU / EFM devices.



SPECIFICATIONS

General

Input Power	10-30Vdc
Mounting	35mm DIN-rail (DIN Rail mount vertical vented plastic)
Dimensions	L : 0.9" (23 mm) W: 4.25" (108 mm) H : 4.5" (114 mm)
Terminal Blocks	
Type	4 position pluggable / removable
Wire Size Accepted	24AWG to 12AWG
Connection Method	Screw

Interface

Input

COM1 RS-232:	RTS, Tx, Rx, GND,
COM2 RS-232:	RTS, Tx, Rx, GND,

Output

RS-232	GND, Rx, Tx, RTS
RS-485	+B, -A, ISO GND, ISO GND

Serial Ports

Configuration	GUI Software via USB interface
Data Rate	1200 to 115200 bps
RS-232 Connections	Tx, Rx, GND, RTS
RS-232 Connector	4 position Removable Terminal Block
RS-485 Type	2-wire Half Duplex
RS-485 Connections	Data A(-), Data B(+), Isolated GND

RS-485 Connector	4 position Removable Terminal Block
RS-485 Isolation	>2000V / port
RS-485 Bus Loading	up to 256 devices (1/8 UL)
RS-485 Bias	560Ω x2 Internally switchable (default off)
RS-485 Termination	120Ω Internal, Software Selectable
USB Connector	High retention force industrial USB-B
USB Driver	VCP (FTDI) provided
LED Indication	STATUS/ALARM, IN Rx, OUT Tx, OUT Rx (all LEDs Red/Green/Amber)

Electrical

Power Connector	4 position Removable Terminal Block
Input Current Max	2A fused.
Quiescent Current (Q)	8.5mA
Vin = 24V	4.6mA (RS-485 disabled)
Typical operating Current*	6.8mA (RS-232 Output, RS-485 disabled)
Vin = 24V	10.6mA (RS-485 Output)
ESD Protection	+/-15KV on all ports
Relay Output	1-Form-C OptoMOS Solid State Relay
Relay Max Current	170mA
Relay Max Voltage	250V

Environmental

Temperature -40 Deg.C to 70 Deg.C

Certification

Class I Div 2 Group C,D, T3C
(Suitable for use in Class I Zone 2, IIB T3C)

SOFTWARE

The SCADALink SS20 is configured using a GUI(Graphical User Interface) connected via the USB port.

