

Fast Poll Industrial Modem for Motorola/UDS RM16M Modem Rack

The Synxcom SM19202FP-RM & SM96202FP-RM fast poll modems are specifically designed and manufactured as plug-in modules for the Motorola/UDS RM16M modem nest. Boasting the latest innovative digital signal processing (DSP)-based communication device, the SM19202FP-RM modem delivers a cost-effective 19200 bps asynchronous solution for point-to-point and multipoint connectivity, while the SM96202FP-RM supports up to 9600 bps.

The SM19202FP series Fast-Poll modem is ideal for industrial communication applications including SCADA systems, RTUs, traffic monitor and control, and industrial automation networks. The SM19202FP supports RTUs with an EIA RS-232 or RS-485 serial port at speeds of 19200, 9600, 4800, 2400, and 1200 bps.

The SM19202FP Fast Poll modem is designed to operate over 4-wire or 2-wire unconditioned leased lines or private metallic circuits. For optimum performance, the modem employs QAM and FSK modulations to communicate over a variety of transmission lines.

The SM19202FP Fast Poll modem is designed to plug-and-play into the Motorola/UDS modem nest. It is compatible with the Synxcom fast poll series standalone modems and Motorola/UDS 202T modems as well.



KEY FEATURES

*Motorola/UDS RM16 Compatible.
Single board modem module*

*Multiple data rates supported:
19200, 9600, 4800, 2400, or 0-
1800 bps, asynchronous*

*QAM modulation for 19200,
9600, 4800 or 2400 bps over Telco
voice-band lines*

*FSK modulation for Bell 202T
and ITU-V.23 modes*

*Fast-train high-speed data pump
design for point-to-point or multi-
point networks with short
RTS/CTS delay (17.5 ms)*

*4 wire full duplex or 2 wire half
duplex communication over
leased or private owned lines*

*Cable equalizer extends operating
distance over unloaded cables*

*Built-in local and remote analog
and digital loopback diagnostics
test features*

*Heavy-duty surge protection
provided at power supply and
leased line interface*

*Wide range of operating
temperatures (-40 to +85° C)*

General Specifications

Data Rate Support

Data Speed:

- 19200, 9600, 4800, 2400 bps fast poll (SM19202FP)
- 9600, 4800, 2400 bps in fast poll mode (SM96202FP)
- 0-1800 bps in Bell 202T mode
- 0-1200 bps in ITU-V23 mode

Data Format: Asynchronous, 8 or 9 data bits

- 10- or 11-bit character with 1 or 2 stop bits

Modulation

QAM for 19200, 9600, 4800, 2400 bps in fast poll mode

FSK for 0-1200 or 0-1800 for V23 or Bell 202T mode

Modem Equalizers

Automatic & adaptive equalizer

Enhanced fixed cable equalizers for extended range

Transmission Line Interface

Leased Line:

- TELCO voice band 2- or 4-wire leased lines
- Private or metallic circuits 2- or 4-wire, 19-26 AWG
- Connector: RJ-45, provided by RM16M modem rack

DTE/RTU Interface

The modem provides serial ports to support RS-232/V24

Interface:

RS-232 Interface

- Connector: DB25-F (Provided by RM16M)
- Signals: RTS, CTS, CD, TD, RD, DSR, SG

Front Panel Indicators & Controls

LED. Indicators:

- PWR, RTS, CTS, TD, CD, RD, DSR, ALB, DLB

TEST Switch:

- Push Button for Analog Loopback, Digital Loopback, and Remote Digital Loopback

Power Supply Specifications

Three models support various power options:

- Stand-alone: 90-264 VAC
- Stand-alone: 10-48 VDC
- Rack mount: AC or DC voltage from RM16M modem rack

Power Consumption:

- Idle mode: 1.0 watts
- Normal mode: 2.0 Watts, typical

Mechanical Specifications

Board dimensions:

- 6.32" (H) x 0.82" (W) x 8.62" (D)
- 160mm (H) x 20.8mm (W) x 219mm (D)
- Weight: 0.50 pound

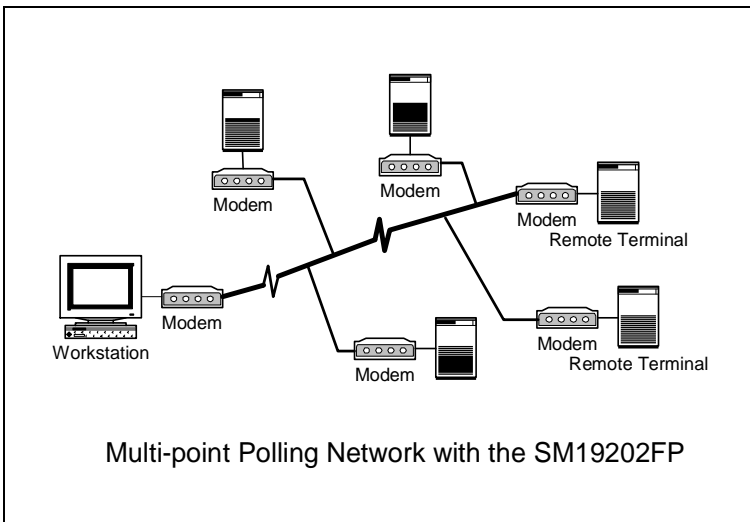
Environment Specifications

Temperature:

- Operation: -40° to +85° C
- Storage: -40° to +100° C

Humidity:

- Up to 95 % non-condensing



Model Numbers and Optional Features

SM19202FP-RM

RM16 rack mount plug in module, up to 19200 bps

SM96202FP-RM

RM16 rack mount plug in module, up to 9600 bps

SM19202FP: Stand-alone with AC power supply

90-264 VAC or 115-400 VDC

SM19202FP-DC: Stand-alone, DC power only

SM19202FP-DC 10-48 VDC