

IG96HFP Hyper Fast Poll Modem

High Speed Industrial Grade 9.6 kbps Hyper Fast Poll Multi-Drop Modem for Industrial, Utility & SCADA Applications

The Data Connect IG96HFP Industrial Grade 9.6kbps Hyper Fast Poll industrial modem is the highest performance triple mode, full featured leased line modem of its class. These modems are designed for rugged industrial automation, utility, and SCADA communications. Boasting the latest innovative digital signal processing (DSP) technology, the IG96HFP modem will soon deliver a 17.4 ms training time (RTS-CTS delay) at 9600bps. The modem will also support 9600/4800/2400 bps at 23 ms RTS-CTS delay, as well as Bell 202T and V.23 operation. The IG96HFP is ideal for point-to-point and multi-point polling network with the industry's fastest training time.



The IG96HFP Industrial Grade 9.6 kbps Hyper Fast Poll modem is designed to operate over 4-wire full duplex or 2-wire half duplex unconditioned leased lines or private metallic circuits. For optimum performance, the modem employs QAM modulations along with its adaptive equalizer to communicate over a variety of transmission lines. The IG96HFP supports DTE/RTUs with an EIA RS-232 and RS-485 serial port at speeds of 9600, 4800, 2400, and 1200 bps. With its Auto-RTS mode, the modem can support DTE/RTUs with 3-wire serial interface (TD, RD, SG) in multi-point polling applications.

The triple mode capability allows the IG96HFP Industrial Grade 9.6 kbps Hyper Fast Poll modem to communicate with the older generation DSP9612FP at up to 9600 kbps and both the Bell 202T and V.23 FSK modems at up to 1200 bps.

The IG96HFP Industrial Grade 9.6 kbps Hyper Fast Poll modem is designed to operate over a wide range of AC or DC power supply voltages and temperatures. With proven reliability and ease of installation, the IG96HFP is ideal for point-to-multipoint polling networks, where fast training time and low-network latency are critical for system performance.

Specifications

Triple Mode:

Hyper Fast Poll mode at 9600bps, delivers 17.5 ms

RTS-CTS delay

QAM mode at 9600/4800/2400bps. 23 ms RTS-CTS delay

FSK mode for Bell 202T (0-1800) modes

DTE/RTU Interface:

RS-232 interface with full control signals support (DB-9F)

RS-485/RS422 support, 4-wire F.D., or 2-wire H.D.

Auto RTS and forced RTS option to support 3-wire interface

Leased Line Interface:

TELCO 2- or 4- wire conditioned or unconditioned lines

Private metallic 2 or 4 wire circuits

Cable equalizers for long distance over standard cables

Mechanical:

Enclosure Dimensions:

5.0"(W) x 6.75"(L) x 1.3" (H)

127mm(W) x 172mm(L) x 33mm(H)

Diagnostics:

Local or remote Analog + digital loopback

Eight (8) front panel LEDs for status monitoring

AC and DC Power Support:

Standalone: 10-48 VDC, 85-400 VDC, 100-240 AC

Rack Mount module: Plug-in RM16M modem rack

Environmental:

Operating Temperature: -40 to 85°C,

Storage Temperature: -40 to 100°C

Humidity: up to 95%, non-condensing

Optional Mounting Kits:

Wall-mount or panel mount kit

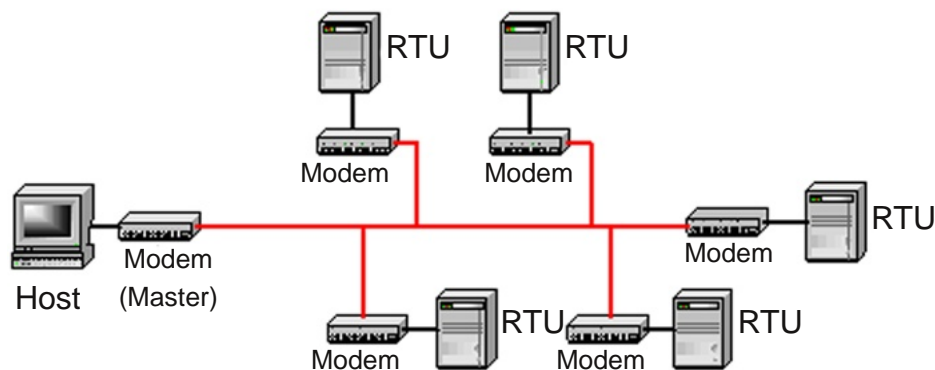
DIN rail mounting kit

Power + Current Consumption:

125 mA @ 12 VDC

28.0 mA @ 48VDC

Application Diagram



Multi-point Polling Network with the IG96HFP

Ordering Information

Model No.

IG96HFP

IG96HFP-LV

IG96HFP-HV

IG96HFP-RM

IG96HFP-WMB

IG96HFP-DIN

Description

Standalone AC voltage (100-240 VAC)

Standalone DC voltage (10-48 VDC)

Standalone High DC voltage (100-240 VAC, 85-400 VDC)

RM16M Rack-mount module

Wall-mount/panel-mount kit

DIN rail mounting kit

Contact Information

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