

Industrial Grade Bell 202T/V23 Modem

The Data Connect low speed IG-202T and IG-V23 modems are designed and manufactured for rugged industrial communication networks. Both modems deliver cost effective and reliable 1200bps asynchronous solutions for point to point and multipoint connectivity.

The IG-202T and IG-V23 modems are ideal for industrial communication applications including SCADA systems, RTUs, traffic monitor and control, and industrial automation networks. The IG-202T and IG-V23 supports RTUs with a user selectable

The IG-202T and IG-V23 modem is designed to operate over 4-wire full duplex or 2 wire half duplex over unconditioned leased lines or private metallic circuits. For optimum performance, the modem employs FSK modulations to be compatible with Bell202T and ITU-V23 standards, which can communicate over a variety of transmission lines.

The IG-202T and IG-V23 modem can operate over a wide range of AC or DC power supply voltages and temperatures. With proven reliability and ease of installation the IG-202T and IG-V23 is ideal for point-to-point and point-to-multipoint polling networks, where reliability and low-network latency are critical for system performance.

Key Features

Data Rate: 0 - 1200 bps

Bell 202T and ITU-V.23 compatible operation for 1200 bps over Telco lines

4 wire full duplex or 2 wire half duplex over unconditioned or conditioned line for point-to-point or

Selectable EIA RS-232/V.24 and RS-485 DTE support

Built-in loopback diagnostics for local and remote testing

Configuration and options provided by DIP switches and jumpers, no AT command set is required

Heavy-duty surge protection provided at power supply and leased

Supports wide range of AC & DC power supply options

Isolated DC to DC converter for protecting critical DC or battery power system

Wide range of operating temperatures From -40° to 85°C



General Specifications

Data Rate Support

Data Speed

0-1200 bps in Bell 202T mode 0-1200 bps in ITU-V23 mode

Data Format:

Asynchronous, transparent character format 10 or 11-bit character with 1 or 2 stop bits

Modulation

Frequency Shift Key (FSK) Bell 202T Mode: Mark 1200 Hz

Space 2200Hz Soft Carrier 900Hz

ITU-V.23 Mode: Mark 1300Hz

Space 2100Hz

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: 4 pin RJ-11C modular Jack Transmitter output level: 0 to -12 dBm.

selectable

DTE/RTU Interface

The modem provides serial ports to support both the RS-232 and RS-485 interface standards:

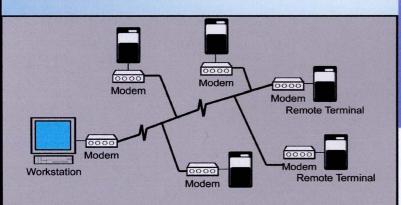
RS-232 Interface

Connector: DB9-F Signals: RTS, CTS, CD, TD, RD, DSR, SG

RS-485 Interface

Connector: RJ-11C Signals:4-wire full-duplex:

TX+, TX-, RX+, RX-



Multi-point Polling Network with the IG-202T Modems

Front Panel Indicators & Controls

RTS, CTS, TD, CD, RD, MR, ALB, DLB

TEST Switch:

Push Button for Analog Loopback, Digital

Loopback

Power Supply Specifications

Three models support various power options:

Standalone: 90-264 VAC Standalone: 10-48 VDC

Power Consumption:

Idle mode: 2 watts

Normal mode: 5 watts, typical

Mechanical Specifications

Enclosure dimensions:

4.1"(W) X 4.9"(L) X 1.4"(H)

(104mm(W) X 125mm(L) X 36mm(H)) Weight: 0.5lbs, without AC power module

Environment Specifications

Temperature:

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

Humidity:

Up to 95% non-condensing

Model Numbers and Optional Features

IG202T: Standalone with AC power supply

90-264 VAC or 115-400 VDC

IG202T-DC: Standalone, DC power only

DC 10-48 VDC

IGV23: Standalone with AC power supply

90-264 VAC or 115-400VDC

IGV23-DC: Standalone, DC power only

DC 10-48 VDC

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