

# MultiModem® IND

## V.92 Industrial Modem



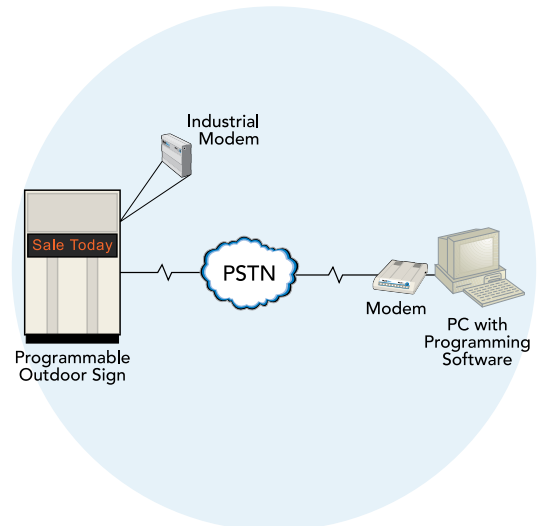
The MultiModem® IND industrial modem is designed for rugged industrial and outdoor applications. The metal chassis and industrial-grade components allow for operation over a temperature range of -40° to +85° C and meet the reliability specifications for vibration and shock. With V.92/56K modem speeds, the MultiModem IND industrial modem provides the fastest, reliable dial-up rates for modem communication in applications under extreme temperatures and conditions.

### Features

- V.92/56K download speeds and 48K upload speeds when connecting with V.92 servers
- Rugged, industrial metal chassis
- Operates over the industrial temperature range of -40° to +85° C
- GR 1089 Clause 4 lightning and AC power fault compliant
- Meets reliability specifications for vibration and shock
- Supports dial-up or 2-wire leased line operation
- V.44 compression improves data throughput rates
- Class 1.0 and Class 2.1 faxing at speeds to V.34/33.6K bps (Super G3)
- Error Correction Mode (ECM) provides fast and reliable fax transmissions
- Windows Plug-and-Play operation
- U.S. Caller ID reporting
- Remote configuration for centralized setup and control
- Callback Security for network security and reduced telephone toll charges
- Global approvals in many countries for worldwide use
- Country localization kits available with power cords, phone cords and telco adapters
- Desktop or panel mounting
- Flash memory for easy updates
- Two-year warranty

### Benefits

- Withstands extreme temperatures and conditions
- V.92/56K modem speeds
- Global approvals



## Highlights

**Applications.** The MultiModem IND industrial modem provides reliable modem communications in applications where temperatures and other conditions can be extreme. It is ideal for industrial automation applications as well as for outdoor remote equipment monitoring such as weather stations, meters and more.

**Withstands Extreme Temperatures.** A PC modem is typically rated for temperatures of 0° to +50° C. This means that in temperatures outside of this range the modem can start to operate intermittently or fail to operate at all in installations where temperature can not be controlled. The MultiModem IND industrial modem is designed with components rated for extreme temperatures ensuring reliable dial-up modem communication in environments operating in temperature ranges from -40° to +85° C. This allows you to provide mission-critical, uninterrupted data communication in any environment without worrying about system downtime.

**Rugged, Industrial Chassis.** The rugged, metal chassis provides complete EMI resistance and transient protection under extreme temperatures and conditions. In addition to withstanding extreme temperatures, it is also tested and approved for meeting reliability specifications for vibration and shock.

**Increased Upload Speeds.** With the V.92 MultiModem IND industrial modem, you can achieve an upload speed of 48K bps (30% increase over V.90 modems). This higher upstream speed reduces data transfer time for large e-mails with attachments and for ftp site uploads, as well as improves operation for interactive applications.

**Global Approvals.** With the MultiModem IND industrial modem, you need just one modem for worldwide use. This model has approvals in many countries so you can ship one SKU (stock unit) virtually anywhere in the world. Localization kits are available for country-specific power cords, phone cords and telco adapters. Go to [www.multitech.com/globalmodem](http://www.multitech.com/globalmodem) for details.

**Comprehensive Service and Support.** The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes technical support, 24-hour web site and ftp support.

## Specifications

### Rates

Data: V.92/56K downloads and 48K upload speeds from V.92 servers; V.90/56K downloads from V.90/K56flex servers; 33.6K bps transfers with other servers  
Fax: 33.6K/14.4K bps

### Standards

Data: V.92, V.90, enhanced V.34 & below  
Error Correction: V.42  
Data Compression: V.44, V.42bis, MNP® Class 5  
Fax: V.34, Class 2.1 & Class 1.0, V.17, Group 3, Class 1 & Class 2, Error Correction Mode (ECM)

### Connectors

1 RJ-11 & DB9

### Operation

Async/230.4K bps  
Dial-up or 2-wire leased line

### Operating System Support

Windows 3.1x/95/98/NT/Me/2000/XP, Linux, SCO OpenServer, & others

### Power Requirements

6V to 48VDC; 155mA typical @ 9VDC, 180mA maximum @ 9VDC

### Physical Description

4.3" w x 2.4" h x 0.94" d; 4.1 oz.  
(11 cm x 6.1 cm x 2.4 cm; 115 g)

### Operating Environment/Reliability

Temperature Range: -40° to +85° C  
EN 60068-2-6: Vibration - 10 - 500Hz sine vibration 5g  
EN 60068-2-30: Temp/Humidity Damp Heat cycling  
EN 60068-2-1: Cold (-40° C)  
EN 60068-2-2: Dry Heat (+85° C)  
EN 60068-2-14: Change of Temperature (-40° C to +85° C)  
IEC 68-2-27: Shock - 3 shocks/3mS duration 50g

### Approvals

EMC: FCC Part 15 Class B, EN 55022 Class B, EN 55024, EN 61000-6-2  
Safety: UL 60950-1, EN 60950-1, GR 1089 (Clause 4 lightning and AC power fault compliant)

## Ordering Information

Product	Description	Region
MT5634IND*	V.92 Data/Fax Industrial Modem	Global

\* Specify country when ordering.

Produced in the US of US and non-US components.

Features and specifications are subject to change without notice.

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**World Headquarters**  
Tel: (763) 785-3500  
(800) 328-9717  
[www.multitech.com](http://www.multitech.com)

**EMEA Headquarters**  
Multi-Tech Systems (EMEA)  
United Kingdom  
Tel: +(44) 118-959 7774