

# The Complete PC solution for the KIV-7

# KLASHOPPER



Making PC Encryption Easier



# Making PC encryption easier

## What is KlasHopper?

KlasHopper makes it easy to browse the Internet, transfer files, send and receive emails and perform real-time videoconferencing using a PC connected to a KIV-7. KlasHopper is a PC card that easily installs in a laptop or desktop PC. KlasHopper supports all popular Windows operating systems including Windows 95/98, Windows Me, Windows NT 4.0, Windows 2000 and Windows XP.

## Easy To Use

Traditionally, setting up an encrypted communications channel with a PC has been very complex. KlasHopper is designed specifically with ease of use in mind. It replaces a complex router with a mobile, portable and easy to use solution designed specifically for the KIV-7. It installs in minutes and appears in Dial-Up Networking just like a regular modem. KlasHopper comes with user guides containing detailed configuration instructions for many typical networking scenarios with the KIV-7.

## Not Needed At Both Ends

KlasHopper is not required at both ends of the connection and can communicate with existing KIV-7 installations. It can connect to any remote device including routers and popular ISDN Terminal Adapters that support PPP. Therefore, the user can connect to KIV-7 encrypted sites that may not be using KlasHopper.

## Configuration Software for Popular ISDN Terminal Adapters

The KIV-7 is an encryption device that does not include any communications capability. It requires an external ISDN Terminal Adapter to connect to the ISDN or satellite network. The Terminal Adapter needs to be configured to support the KIV-7. This configuration is difficult and requires the user to manually enter a series of commands. Klas solves this problem by offering a single-key software utility which automatically configures the Terminal Adapter for the desired KIV-7 mode.

## Includes All Necessary Cables

KlasHopper is supplied with KIV-7 red and black cables as standard. The KIV-7 comes with a 37 pin connector which requires dedicated cables. KlasHopper includes integrated cables that connect directly from the PC to the KIV-7. Cables to connect the KIV-7 to the ISDN Terminal Adapter are also included.

## High Speed (64K/128K)

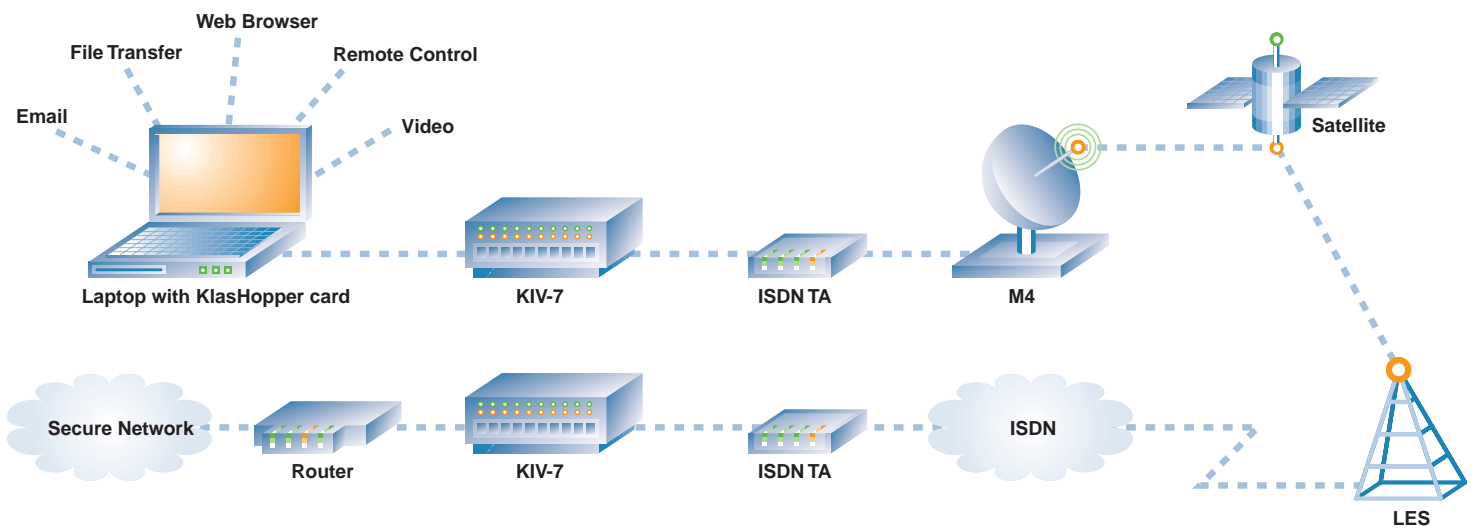
KlasHopper is the only card of its kind that supports full duplex data transfer rates up to 128K. KlasHopper uses a special optimized algorithm designed specifically to provide higher throughputs. This allows a user make maximum use of their ISDN or satellite channels to send data at 64K or 128K.

## Supports Popular Networking Applications

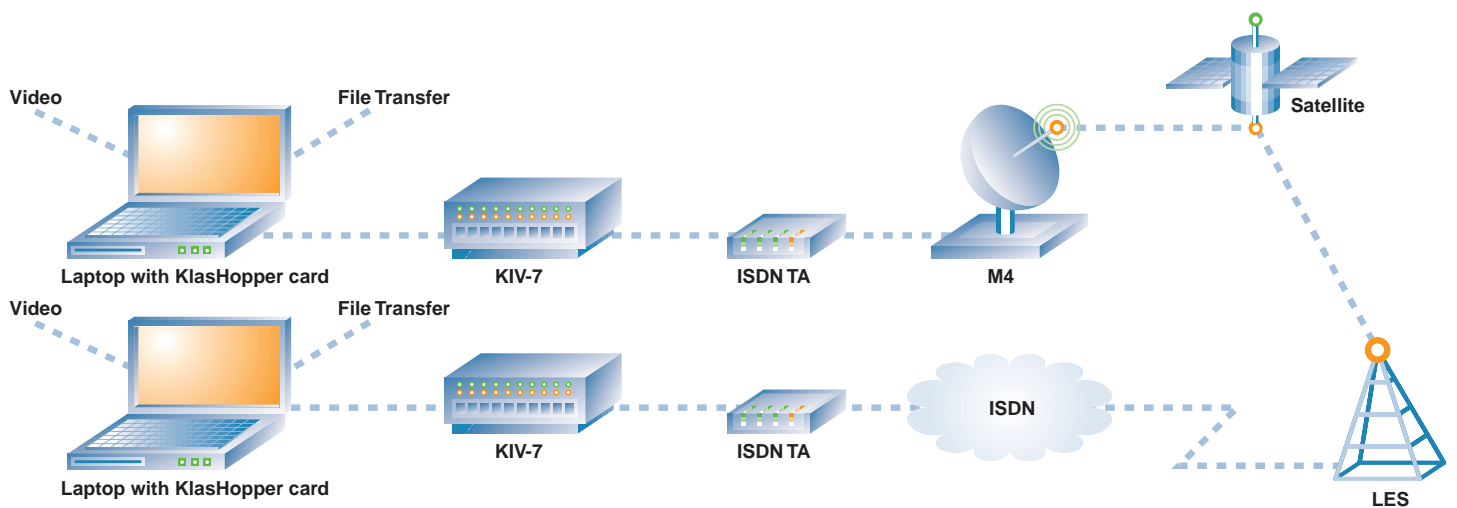
KlasHopper supports standard email, networking, file transfer and videoconferencing applications including Outlook, Outlook Express and Internet Explorer. KlasHopper works with all standard networking protocols including PPP, TCP/IP, NetBEUI and IPX/SPX.



**Connecting PC applications to a secure network with a KIV-7 over satellite and ISDN**



**PC to PC file transfer and videoconferencing with a KIV-7 over satellite and ISDN**



**Klas Application Software**

KlasHopper is the perfect platform for Klas' networking, file transfer and videoconferencing products. KlasPeer2Peer makes it easy to dial and answer a call with a KIV-7 for PC to PC based file transfer. KlasVideoHopper is a PC-based videoconferencing product that supports live audio and video communication between two PCs. KlasPeer2Peer and KlasVideoHopper are designed specifically for KIV-7 encrypted communications at 64K and 128K. Please contact Klas for more details on these products.

### Encryption Devices

KIV-7 in synchronous RS-232 or RS-530 mode  
STE in synchronous RS-232 or RS-530 mode  
BRENT in synchronous X.21 mode

### Operating Systems

Windows 95  
Windows 98  
Windows 98 Second Edition  
Windows Me  
Windows NT 4.0  
Windows 2000  
Windows XP

### Interfaces

Synchronous RS-232  
Synchronous RS-530 (RS-422)  
Synchronous RS-449 (RS-422)  
Synchronous X.21

### Applications

Dial-Up Networking (RAS)  
Remote LAN access  
Email (Outlook, Outlook Express etc.)  
Browser (Internet Explorer, Netscape etc.)  
File Transfer (WS\_FTP, Internet Explorer etc.)  
H.323 Videoconferencing (NetMeeting)  
H.323 Audio (NetMeeting)

### Communications Devices

ADTRAN ISU 2x64 Terminal Adapter  
Motorola BitSURFR  
Multi-Tech MT2834  
Multi-Tech MTA128ST  
Inmarsat B HSD  
Inmarsat M4

### Remote Device Support

Router  
ISDN Terminal Adapter  
ISDN CAPI Card

### Cables

RS-232 DB-25  
RS-530 DB-25  
RS-449 DB-37  
X.21 DB-15  
KIV-7 Red RS-232 DB-37  
KIV-7 Red RS-530 DB-37  
KIV-7 Black RS-232 DB-37  
KIV-7 Black RS-530 DB-37

### Line Protocols

PPP over HDLC (RFC 1618)  
HDLC

### Networking Protocols

PPP  
IP  
TCP/IP  
UDP  
NetBEUI  
IPX/SPX  
PAP  
SPAP  
CHAP  
MS-CHAP  
MS-CHAP v2

### Telecommunications Networks

(via suitable communications device)  
ISDN (64K/128K)  
PSTN  
Satellite (Inmarsat B HSD, Inmarsat M4)

### Software

PCMCIA : NDISWAN Driver  
PCI : TAPI Driver

### PC Requirements

233 MHz Processor  
32MB RAM  
20MB Hard Disk free  
PCMCIA : Free laptop card slot  
PCI : Free desktop card slot  
No external box  
or power supply required

### Dial/Answer Modes

Hot (DTR) Dial  
Manual Dial  
Hot (DCD) Answer  
V.25bis Dial

### Speeds

300 bps to 128K bps (auto-sensing)

### Clocking

External Tx and Rx independent  
External Tx slaved to Rx

### Hardware

PCMCIA : Type II (5mm) card  
PCI : Half-length PCI board

### Standards

CE Mark  
FCC Approved  
Fully tested for Y2K compliance

### Card Types

KlasHopper 200 PCMCIA  
- PCMCIA card supporting RS-232  
KlasHopper 400 PCMCIA  
- PCMCIA card supporting RS-530/RS-449/X.21  
KlasHopper 200 PCI  
- PCI card supporting RS-232  
KlasHopper 400 PCI  
- PCI card supporting RS-530/RS-449/X.21



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