



KLASHOPPER

Connects a Laptop Directly to Type-1 Serial Encryption



Introduction

With the KlasHopper 600, First-In Communicators can easily streamline Type-1 Serial Encryption in a single-user setting. The KlasHopper 600 is a PCMCIA or PCI card that connects any laptop or PC directly into a KIV-7, OMNixi or STE, avoiding the need for a separate router. The KlasHopper 600 is easy to install and operates seamlessly on any Windows operating system. With one click, users can securely connect to their home network and take advantage of email, Internet, file transfer or VTC applications using just their laptop. The KlasHopper 600 provides the effortless transition a single First-In Communicator needs to achieve Type-1 Serial Encryption in deployed environment.





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 Type-1 Encryption. 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 Type-1 Encryption.

Not Needed At Both Ends

KlasHopper is not required at both ends of the connection and can communicate with existing Type-1 Encryption installations. It can connect to any remote device including routers and popular ISDN Terminal Adapters that support PPP. Therefore, the user can connect to Type-1 encrypted sites that may not be using KlasHopper.

Configuration Software for Popular ISDN Terminal Adapters

Type-1 Encryption devices do not inherently support ISDN 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 Type-1 Encryption. 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 Type-1 Encryption mode.

All Necessary Cables Available

Klas can provide red and black cables for any Type-1 Encryption device or connector. For example, the KIV-7 comes with a 37-pin connector, which requires dedicated cables. We can also provide the integrated cables that connect directly from the PC to the Type-1 Encryptor. Cables to connect the Type-1 Encryptor to the ISDN Terminal Adapter are also available.

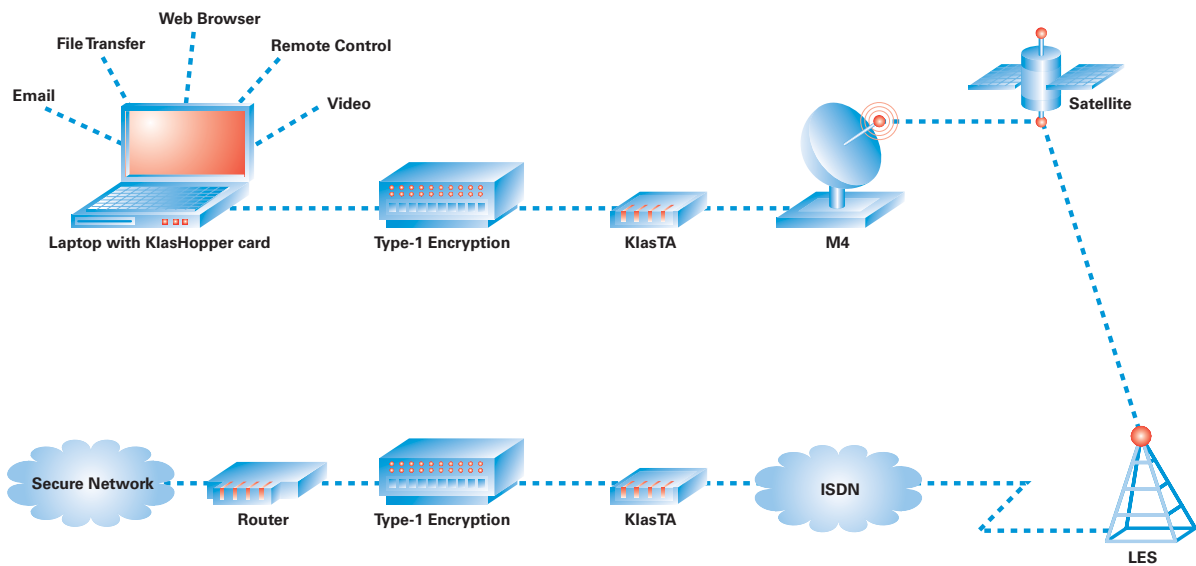
High Speed (64K/128K)

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 to make maximum use of their ISDN or satellite channels to send data at 64K or 128K.

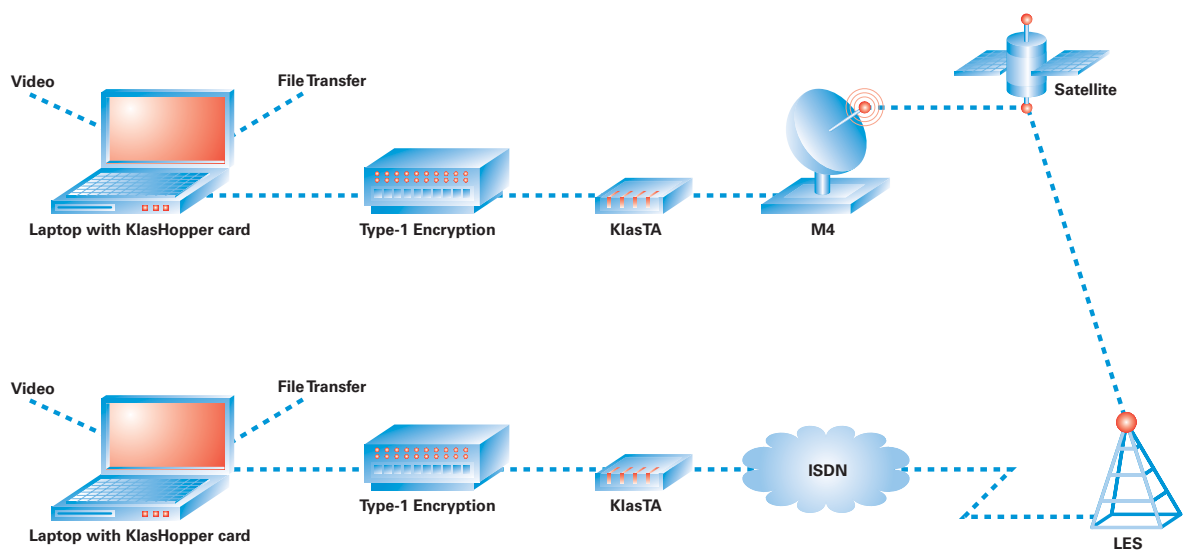
Supports Popular Networking Applications

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



KlasHopper PCMCIA



KlasHopper PCI



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KlasHopper Technical Specs

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

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

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

