

The only ISDN TA that connects a KIV-7 or STE to any M4 at 64K and 128K



Making PC Encryption Easier

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## What is KlasTA?

KlasTA combines the functionality of an ISDN Terminal Adapter and an ISDN line splitter into a single box. It connects a KIV-7 to one or two M4s at 64K or 128K. It connects a STE to two M4s at 128K. KlasTA is the only connectivity product in the market which supports 64K and 128K connections for both the KIV-7 and the STE. KlasTA is ideal for encryption users who want the flexibility of using either a KIV-7 or a STE in 64K or 128K satellite configurations.

### Connect a KIV-7 to 64K or 128K M4s

When used with the KIV-7, KlasTA can make calls at 64K and 128K over the full range of M4 models available in the market. It contains two ISDN ports and will work with both single-channel (64K) and dual-channel (128K) M4s. For 64K operation it behaves just like a standard ISDN Terminal Adapter - the user connects the first ISDN port to their M4. For 128K operation the user has the choice of using two single-channel (64K) M4s or one dual-channel (128K) M4. KlasTA contains advanced technology that allows 128K protocols work over two ISDN lines. Different models of M4 can be used in the same 128K call!

### Connect a STE at 128K to two M4s

When used with the STE, KlasTA splits the STE ISDN line into two separate ISDN lines. KlasTA has three ISDN ports - the STE is connected to the first port and the other two ports are each connected to a single-channel (64K) M4. This allows the STE to make 128K calls over two separate M4s. Different models of M4 can be used in the same 128K call. KlasTA correctly handles all the ISDN D-channel signaling information required by the STE.

### Small and Light

KlasTA is the ideal solution for the mobile satellite user - it is extremely small and light. Because KlasTA combines the functionality of two boxes into one, it significantly reduces the hardware required to make an encrypted KIV-7 or STE call. Only a single KIV-7 or STE is required at the mobile side even when making calls at 128K.

### Easy to Configure

When used with the KIV-7, KlasTA is supplied with single-key PC software which makes it very easy to configure. Existing ISDN Terminal Adapters are difficult to configure and require the user to manually enter a series of commands. KlasTA solves this problem and includes a dedicated control port which can be easily connected to a PC using the supplied cable. The user can choose from a variety of dial and answer modes including Hot (DTR) Dial and V.25bis. When used with the STE, KlasTA does not require any user configuration and is ready to be used out of the box.

### Includes All Necessary Cables

KlasTA is supplied with all necessary KIV-7 and STE cables as standard. The KIV-7 comes with a 37-pin connector which requires dedicated cables. KlasTA includes integrated cables that connect directly to the KIV-7. The STE uses standard ISDN cables which are supplied with KlasTA. Cables to connect the KIV-7 or STE to the PC or router are also included. KlasTA asserts all the modem control signals required by the KIV-7 to dial and answer calls.

### Not Needed at Both ends

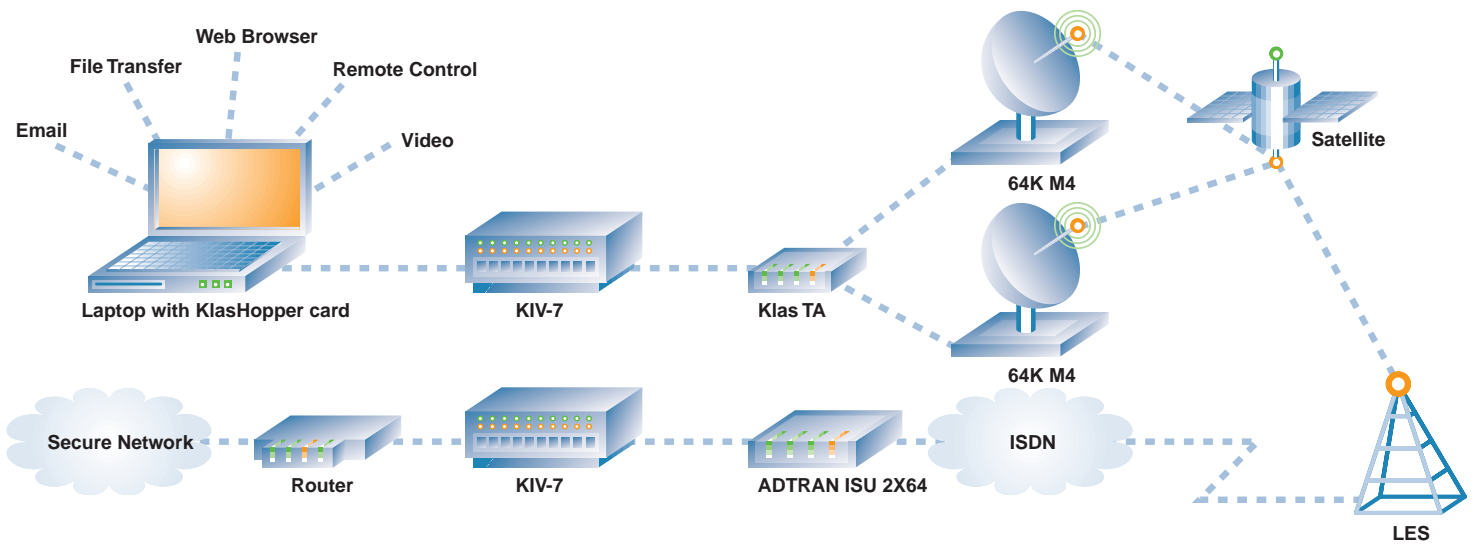
KlasTA is not needed at both ends of the connection and can communicate with existing KIV-7 or STE installations. When used with the KIV-7, KlasTA can connect to any remote device including popular ISDN Terminal Adapters at both 64K and 128K. KlasTA supports 64K clear-channel and 128K Bonding Mode 1. Therefore, the user can connect to KIV-7 encrypted sites that may not be using KlasTA. When used with the STE, KlasTA transparently routes the 128K STE bonding protocol. The STE has a built-in 128K protocol which KlasTA splits into two separate channels. KlasTA can connect to any remote STE which is configured for 128K.

### Supports PC and Router Solutions

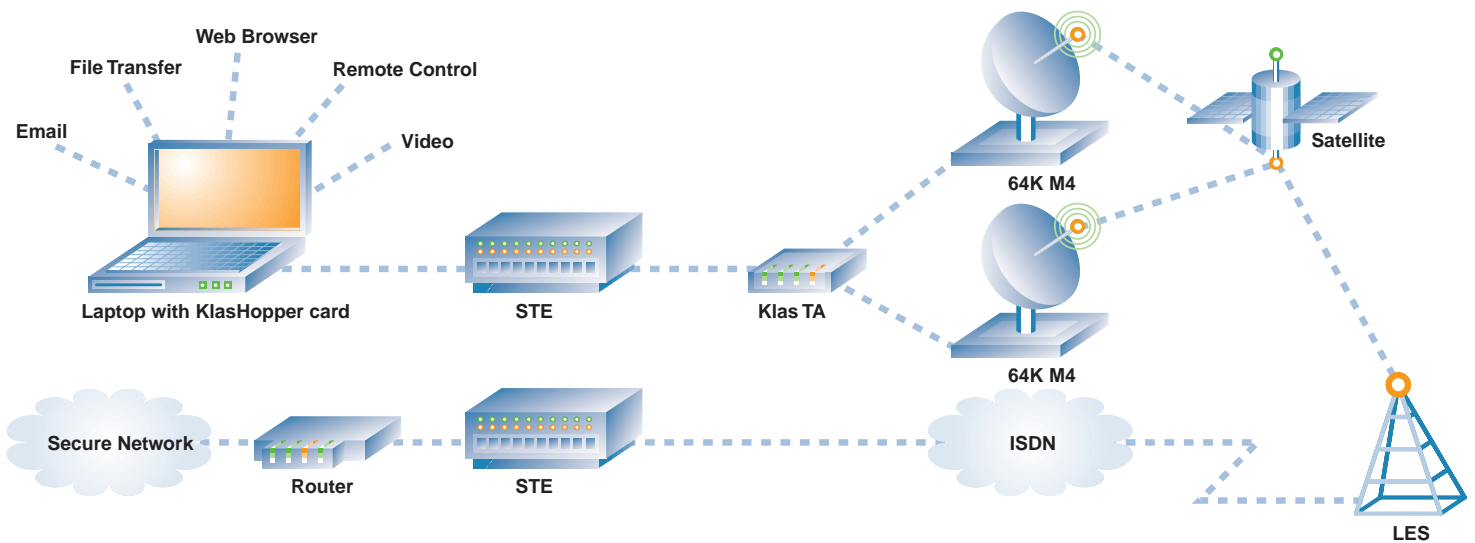
KlasTA will work with any user device connected to the KIV-7 or STE. This includes both PC connectivity solutions (e.g. KlasHopper) and also network solutions (e.g. routers). KlasTA can both dial and answer calls at 64K and 128K. Use it in the field to make satellite to satellite calls at 64K or 128K. It can also be used at the office site with standard ISDN lines to answer calls from satellite users.



→ Connecting PC apps to a secure network with a KIV-7 over satellite and ISDN at 128K



→ Connecting PC apps to a secure network with a STE over satellite and ISDN at 128K



### Klas PC Products

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

#### **Encryption Devices**

KIV-7 in synchronous RS-232 mode  
STE in Euro-ISDN mode

#### **M4/ISDN Interface**

Two Independent S/T Interfaces  
with RJ-45 Connectors

#### **DTE Interface (KIV-7)**

Female RS-232 DB-25 Synchronous  
Synchronous at 64K and 128K  
Rx and Tx clocking are generated  
by the port and are synchronised to the  
ISDN line

#### **ISDN Interface (STE)**

Euro-ISDN Interface with RJ-45 Connector

#### **B Channel Protocols**

Clear-channel 64K  
Bonding Mode 1 128K

#### **D Channel Protocols**

Euro-ISDN (DSS1)  
National ISDN 1  
5ESS

#### **Dial and Answer at 128K (KIV-7)**

Dial using 2 single-channel (64K) M4s  
Dial using 1 dual-channel (128K) M4  
Answer using 2 single-channel (64K) M4s  
Answer using 1 dual-channel (128K) M4

#### **Dial and Answer at 64K (KIV-7)**

Dial using 1 single-channel (64K) M4  
Dial using 1 dual-channel (128K) M4  
Answer using 1 single-channel (64K) M4  
Answer using 1 dual-channel (128K) M4

#### **Dial and Answer at 128K (STE)**

Dial using 2 single-channel (64K) M4s  
Answer using 2 single-channel (64K) M4s

#### **Dial and Answer Modes (KIV-7)**

Dial using DTR  
Dial using V.25bis  
Answer using DCD and DTR  
Answer using DCD ignoring DTR  
Answer using V.25bis

#### **Interoperability at 64K (KIV-7)**

Multi-Tech MTA128ST  
ADTRAN ISU 2X64  
Standard ISDN Terminal Adapters  
supporting 64K clear-channel

#### **Interoperability at 128K (KIV-7)**

ADTRAN ISU 2X64  
Standard ISDN Terminal Adapters  
supporting 128K Bonding Mode 1

#### **Interoperability at 128K (STE)**

STE configured in 128K  
mode connected to ISDN

#### **PC Configuration Software**

Control Port :  
Female RS-232 DB-25 Asynchronous  
Operating Systems :  
Windows 95/98/Me/NT4/2000/XP

#### **Supplied Cables**

KIV-7 Red RS-232 DB-37  
KIV-7 Red RS-530 DB-37  
KIV-7 Black RS-232 DB-37  
STE RJ-45 ISDN  
STE Red RS-232 DB-25  
STE Red RS-530 DB-25  
Async RS-232 DB-25  
(for PC Configuration Software)

#### **M4 Terminals Supported**

All single-channel (64K) units  
All dual-channel (128K) units

#### **User Devices Supported**

PC Connectivity Cards (e.g. KlasHopper)  
Routers

#### **Power Supply**

Universal 110-240V external power supply  
Approved for US and European use

#### **Physical Dimensions**

165 x 120 x 38 (mm)  
6.5 x 4.7 x 1.5 (in)

#### **Approvals**

CE  
Fully tested for Y2K compliance



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