KlasTA is the industry’s leading ISDN Terminal Adaptor (TA) designed specifically for secure and reliable First-In Communications. Combined with Type-1 encryption devices, such as the KIV-7 and OMNIxi, KlasTA converts the encrypted serial link into a managed ISDN signal that can be sent over an INMARSAT M4 satellite phone. Additionally, KlasTA is the only TA with the ability to reliably provide higher bandwidths by combining multiple encrypted 64K channels using Klas’ unique multiplexing protocol, called AERO. As mobility and reliability continue to play an increasing role in the First-In Communicator’s mission, KlasTA presents the perfect union of form and functionality to suit their vital network requirements.
Small and Light with Incredible Port Density
Since space and weight are as important as performance to the First-In Communicator, KlasTA combines all interface options into a compact and lightweight package. The original KlasTA, which has two 128K S/T ports and an RS-530 Serial interface, weighs less than a pound and fits in the palm of your hand! Even fully loaded with four S/T ports, two U-ports, an RS-530 interface and an RS-366 interface, KlasTA is a slim 6.7 x 4.9 x 1.1 inches. Perfect for integration into a customized fly-away case, KlasTA provides the physical efficiency needed for modular and deployable remote access solutions.

Designed for use in Secure Networks
Through its RS-530 serial port, KlasTA is completely interoperable with all Type-1 serial encryption devices. Klas has tested extensively with the KIV-7 and OMNIx to understand the clocking and exact signaling requirements to initiate and maintain a solid Type-1 secure connection. KlasTA even has a unique splitter option that takes the 128K ISDN output from a STE, divides it into two 64K channels and then forwards each secure channel to an individual M4 terminal. With KlasTA, First-In Communicators can feel confident that their Type-1 encrypted communications work as reliably over satellite as they do in their home networks.

Multiplex up to Eight 64K Channels
KlasTA is the first TA that overcomes the high error rate found in ISDN satellite sessions that inevitably causes them to break down and fail. Historically, ISDN over satellite was confined to 64K, because even small errors would cause problems with multiplexing more than one 64K channel. Our custom protocol, called Klas AERO, continually monitors and manages each link looking for errors and inconsistencies. With KlasTA, up to eight channels can be combined for a remarkable 512K of bandwidth! If a channel is lost, KlasTA will detect the failure and automatically renegotiate the session without any additional commands or reconfiguration steps. KlasTA expands the number of options available by giving First-In Communicators the bandwidth and reliability necessary for modern applications.

Flexible and Easy-to-Learn Configuration
KlasTA continues Klas’ tradition of customer-friendly configuration options designed for the non-technical user. Using the serial console port, users can connect their laptop to KlasTA and run a configuration wizard that will step through each of the options in terms that are clear and easy to understand. If using a terminal is a concern for security purposes, KlasTA also has a companion keypad containing all of the same parameters in a simple menu-based format. Once configured, all of the settings can be saved as a profile for future use in similar scenarios. Lastly, KlasTA comes with a special DTR hot-dial cable to initiate the satellite connection with the flick of a switch.

Interoperable with Existing ISDN Architecture
Although KlasTA is one of a kind over satellite links, it is also just as effective with existing terrestrial-based ISDN infrastructures. KlasTA can be configured for Bonding Mode 1 over landline connections in order to communicate with an ADTRAN TA at speeds up to 384K. Using 64K Clear Channel, KlasTA is interoperable with any ISDN device, even over satellite. Also, KlasTA has two embedded ISDN U-Interfaces removing the need for external NT-1 devices. For ISDN VTC architectures, KlasTA supports the H.320 protocol as well as RS-366 dialing and dial-isolator functionality. First-In Communicators now have a single source in KlasTA for reliable, high-bandwidth communications whether at home or deployed abroad.

### Comparison Chart

<table>
<thead>
<tr>
<th></th>
<th>KlasTA AERO-256K</th>
<th>KlasTA II</th>
<th>KlasTA II RS-366</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>6.9” x 4.9” x 2.7”</td>
<td>8.6” x 4.9” x 1.1”</td>
<td>8.6” x 4.9” x 1.85”</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 lbs</td>
<td>1.1 lbs</td>
<td>1.5 lbs</td>
</tr>
<tr>
<td>H.320 Capable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DTR Dialing</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>KlasSplitter Option</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Serial RS-530 Port</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>KeyPad Configurable</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>S/T Interfaces</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Max B1M Speed</td>
<td>128K</td>
<td>384K</td>
<td>128K</td>
</tr>
<tr>
<td>Klas AERO Protocol</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Max Klas AERO Speed</td>
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<td>512K</td>
<td>4</td>
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<tr>
<td>RS-366 Dialing</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>U Interfaces</td>
<td>0</td>
<td>2</td>
<td>Yes</td>
</tr>
</tbody>
</table>
# Technical Specifications

## All KlasTAs

### Encryption Devices
- KIV-7
- OMNIxi
- STE

### B Channel Protocols
- AERO
- Clear Channel 64K
- Bonding Mode 1
- Bonding Mode 2

### D Channel Protocols
- EuroISDN
- National ISDN 1/2
- AT&T 5ESS

### Satellite Bandwidths
- 256K with AERO
- 64K Clear Channel
- 128K with Bonding Mode 2

### Terrestrial Bandwidths
- 256K with AERO
- 128K with Bonding Mode 1
- 64K Clear Channel

### Interfaces
- 4 x RJ-45 S/T BRI ports
- 2 x RJ-45 U BRI ports
- 1 x RS-530 DB-25
- 1 x RS-366 DB-25 Dial Port

### Physical
- Size: 8.6" x 4.9" x 1.85"
- Weight: 1.5 lbs

### Power
- Universal External 110-240V Power Supply
- 5 - 12V DC, 1A

## KlasTA AERO256K

### Satellite Bandwidths
- 256K with AERO
- 64K Clear Channel
- 128K with Bonding Mode 2

### Terrestrial Bandwidths
- 256K with AERO
- 128K with Bonding Mode 1
- 64K Clear Channel

### Interfaces
- 4 x RJ-45 S/T BRI ports
- 2 x RJ-45 U BRI ports
- 1 x RS-530 DB-25
- 1 x RS-366 DB-25 Dial Port

### Physical
- Size: 8.6" x 4.9" x 1.85"
- Weight: 1.5 lbs

### Power
- Universal External 110-240V Power Supply
- 5 - 12V DC, 1A

## KlasTA II

### Satellite Bandwidths
- 512K with AERO
- 64K Clear Channel
- 128K with Bonding Mode 2

### Terrestrial Bandwidths
- 512K with AERO
- 384K with Bonding Mode 1
- 64K Clear Channel

### Interfaces
- 4 x RJ-45 S/T BRI Ports
- 2 x RJ-45 U BRI Ports
- 1 x RS-530 DB-25
- 1 x RS-366 DB-25 Dial Port

### Physical
- Size: 8.6" x 4.9" x 1.85"
- Weight: 1.5 lbs

### Power
- Universal External 110-240V Power Supply
- 5 - 12V DC, 1A

## KlasTA II RS-366

### Satellite Bandwidths
- 512K with AERO
- 64K Clear Channel

### Terrestrial Bandwidths
- 512K with AERO
- 384K with Bonding Mode 1
- 64K Clear Channel

### Interfaces
- 4 x RJ-45 S/T BRI Ports
- 2 x RJ-45 U BRI Ports
- 1 x RS-530 DB-25
- 1 x RS-366 DB-25 Dial Port

### Physical
- Size: 8.6" x 4.9" x 1.85"
- Weight: 1.5 lbs

### Power
- Universal External 110-240V Power Supply
- 5 - 12V DC, 1A

## Contact

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