

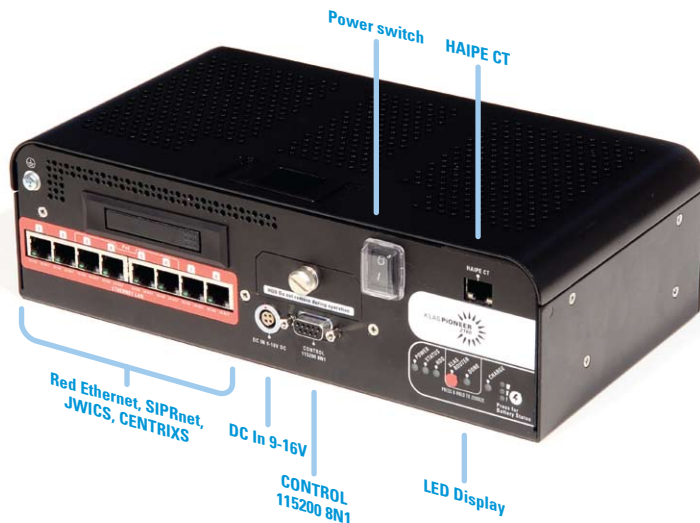
KLASPIONEER 4600

NETWORKING THE 1ST-IN COMMUNICATOR

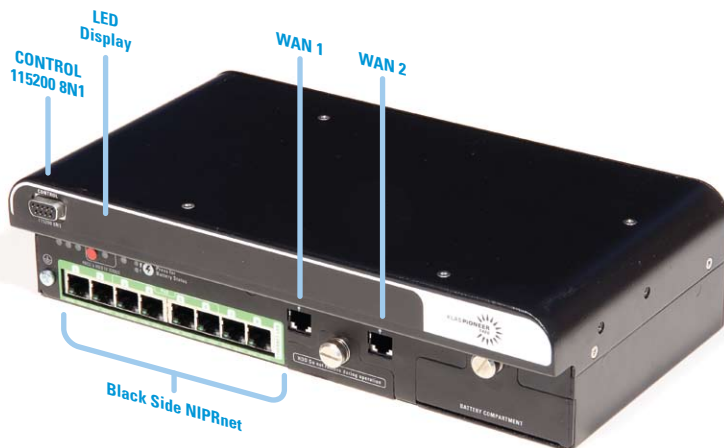
The **KLASPIONEER 4600** (KP4600) is a modular, flexible baseband kit designed for the Executive Communications market. It leverages proven satellite technology such as KlasRouter and KlasTA to provide backhaul over a range of satellite and terrestrial networks in a tightly integrated package. The KLASPIONEER 4600 allows for more than 25 users across all enclaves.



- 1 Airline Carry on (36lbs)
13.7" x 22.2" x 8.9"
- 2 BGAN inside
- Can be used with V-SAT
- 3 3G + Wifi Reachback
- Android based Tablet
+ GUI for selecting preferred networks
- 4 KP-PSU-100 Power
- 2 NEMA 5-15 AC outlets
- DC input 9-16V
- 50 min back-up of all components
- 5 3 x KP2160 classified modules
- Battery - Backed KlasRouter + HAIPE
- 8 Ethernet ports on each module
- 4 PoE ports on each module
- Fits Harris SECNET 54 or ViaSat KG-250X
- 6 KP1400 unclassified module
- Battery backed
- KlasRouter
- 8 Ethernet Ports
- 4 PoE ports
- FIPS-compliant IPsec VPN
- 7 BGAN bonding
- bond 2 432kb/s BGANs
- 8 SCPS acceleration
HTTP Compression and
Prefetch (Removable SATA drive on Router)
- 9 GAN bonding
- bond 4 ISDN BRI
- based on KlasTA II



KLASPIONEER 2160



KLASPIONEER 1400

Key Features:

- 3 x Pioneer 2160 classified modules (KP2160) each with battery-backed KlasRouter and HAIPE device. Either Harris SecNet 54 (KIV-54) or ViaSat KG-250X can be installed in Pioneer 2160 for HAIPE encryption.
- PiONEER 1400 unclassified module (KP1400) with battery-backed KlasRouter supporting connectivity over untrusted WAN interfaces.

Power

- Converts AC 90-264V 47-63 Hz to 12V (R400 and R401)
- Minimum 50 minute battery backup
- Pass-through power when AC input is connected (R403)
- DC input range of 9-16V is filtered and converted to 12V for internal use (R400)
- All modules are individually battery backed and removable for Separation requirements

Module Ports

- The KP1400 and KP2160 each provide 8 Ethernet LAN ports, 4 of which support Power over Ethernet (PoE).
- 48 Users in total are supported

Modularity

- Classified modules can be easily removed and replaced if required
- Chassis supports additional modules such as Riverbed VSH, Secure voice and cellular

Backhaul

- IPsec validated by NIST to FIPS 140-2 Level 1 for all untrusted WAN connections
- WAN Connections:
 - BGAN (Bonding of 2 BGAN'S)
 - ISDN / GAN (Bonding of up to 4 ISDN BRI interfaces)
 - VSAT
 - 3G and WiFi

Physical Attributes

- Housed in a 13.7" x 22.2" x 8.9" case
- Complete system weight is 36 lbs
- Operating Temp. 32F – 122F (0C – 50C)

Acceleration & Compression

- Space Communications Protocol Standards (SCPS)
- HighSpeedTCP
- HTTP Caching (Removable solid-state hard disk for caching)
- Prefetch