

SkyPack™



Overview

The SkyPack Receiver (SPR) is housed in a sturdy ruggedized laptop case, and is the next logical step in the evolution of receivers for the warfighter. The SPR is compatible with GBS, and incorporates an advanced DVB-S2 satellite receiver capable of receiving up to 80 Mbps of digital content for storage, concurrent with audio applications and/or streaming video(s) in real-time, when mission required. The SPR also supports subsequent dissemination activities when network connected.

The receiver can be provisioned with embedded Advanced Encryption System (AES) support and is compatible with FIPS-140 encrypted broadcast data streams. Type-1 HAIPES encryption is supported externally. The engineering prototype of the SkyPack Terminal (SPT) supports both the Ka and Ku downlinks common to the Global Broadcast Service environments.

The SPT antenna requires only very simple hand tools to completely assemble and secure the antenna in minutes, a vital capability for it's designed role.

The SPT is designed to complement the SPR and collectively weighs less than 25 pounds without external cryptographic equipment.

BENEFITS:

- Lightweight Rugged Laptop (< 15 lbs)
- Fully compatible with the NGRT or prototype CSPT
- Only simple hand tools needed for antenna setup and service Manpackable Antenna Rucksack or Suitcase (Airline Carryon)
- Field Proven Multi-piece, High-Strength .6 Meter Reflector
- Antenna Weight 10 lbs, Including collapsible tripod and feed/LNB
- Ku-Band (10.95 - 12.75 GHz), G/T 15 dB/K (mid band)
- Ka-band (20.2 - 21.2 GHz), G/T 17.5 dB/K (mid band)
- Operable up to 30 mph wind speed with tie down
- Ruggedized COTS oriented
- Working prototypes now
- Oriented towards Special Operations requirements
- Water resistant Laptop (watertight when not in operation)
- Base computer meets MIL-STD-810F



SPR

- Integrated with DVB-S2 Tuner
- Type II Encryption
- CPU Intel Pentium M Processor 1.4GHz/1.6
- One GB DDR SODIMM PC2100
- Dual View function, LCD/CRT simultaneous display capability
- Video Memory Shared system memory 64MB
- Bay 1 Swappable for DVD, CD-ROM, CD-RW, FDD, Bay1 Battery and 2nd HDD Integrated with Type III X 1 or Type I x 2 PCMCIA Card Slot ExCA / ZV / CardBus compatible Integrated IEEE 1394 Port and 16 Bit
- Display 12.1" / 14.1" TFT, XGA LCD resolution: 1024x768 (XGA)
- Keyboard Shower-proof and dust-proof rubber Keyboard - Optional LED Back-Light Rubber Keyboard
- I/O Port Serial port x 1; Parallel port (EPP/ECP) x 1; RJ-11 x1; RJ45x1
- VGA monitor port x1; USB 2.0 x 1; DC input x1; IR port x 1 -Port Replicator port x 1; IEEE 1394
- Port x 1 (Integrated in Bay 1)
- PCI Audio support external Audio Jack Cable for MIC-In and Line-Out Ports
- Battery Primary Li-Ion Type Battery for 4.0 Hours on a Single Charge Bay1 Li-Ion Smart Battery, Bay2 Li-Ion Smart Battery AC adapter Universal AC adapter, Input:100-240v, 50/60Hz AC -60Watts
- Dimensions 310(W)x255(D)x70(H) mm Weight 5.8 Kg (12.7lbs) with primary battery
- Operating: 0°C to 50°C -20°C to 50°C (Optional), Non-operating: -20°C to 70°C
- Humidity 5% to 95% RH, Non Condensing
- Altitude Operating: 15,000ft, Non-operating: 40,000ft;
- Shock Operating: 15g, 11 ms, half sine wave, Non-operating: 50g
- Vibration / Drop Sinusoidal wave vibration: Operating: 10-55Hz/0.075mm, 55- 500Hz/1.0g, Non-operating: 10-55Hz/0.15mm, 55-'500Hz/2.0g 514.5 High way truck vibration exposure (Operation), Method 516.5 3 feet height free drop Enclosure According to IEC 529, IP 54 compliance
- COM Port Module - Removable Sealed Water Proof RS-232, 422, or 485 Module Bay2 Battery Pack - Removable and Rechargeable Li-Ion Battery Pack Bay2 Li-Ion Battery Pack, Bay2 FDD, DGPS - DGPS Module Wireless Modem (GSM/GPRS, CDMA)



SPT

- Single person carry , 10 lbs, single backpack or Suitcase portable.
- Impact resistant
- Ka-band (20.2 - 21.2 GHz), G/T 17.5 dB/K (Mid-Band)
- Ku-band (10.95 - 12.75 GHz), G/T 15 dB/K (Mid-Band)
- Field Proven Multi-piece, High-Strength .6M Reflector
- Downconvert to L-band (950-1950MHz)
- DVB waveform - 3 to 23.5 Mbps
- 30 mph wind - blowing sand, dust, rain, and snow with tie-down
- 40 to +50 °C plus solar load
- Installation on slope up to 30 ° with tie-down
- Optional Touch Screen, Sun-light Readable
- Non-tracking with adequate link margin for up to 4.5-5 hours without manual adjustment
- Interchangeable LNB feeds and composite reflector panels
- Setup and operation in less than 15 minutes without special tools



Airborne



Ground-Mobile



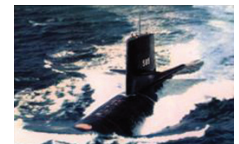
Shipboard



UAV



Backpack



Submersible

Cerona Networks, Inc.

5235 Westview Drive, Suite 103, Frederick, MD 21703

Web: www.cerona.com Email: sales@cerona.com Phone: 240.215.4728 Fax: 301.620.1889