

APPLICATIONS

- Multi-point data broadcasting
- IPTV distribution
- Optional Video decoding with PVR function
- Television contribution / distribution
- Weather – News – educational content

FEATURES



- DVB-S & DVB-S2 & DVB-S2X
- Dual satellite tuners & IP input interfaces
- MISTIQ Internet distribution enabled
- Flexible PID filtering and forwarding
- Removable 4 point rack mount (2 front & 2 rear) for rugged handling in RBM transit cases like TGRS & AN/TSR-8
- Web server & SAMBA access to file & stream content
- NetManager Network Management System included
- Cyphercast decryption included
- Web Browser interface
- Front panel LCD & Keypad
- QPSK/8PSK/16ASPK/32APSK
- 2 Ethernet interfaces
- Two smart card readers for Cyphercast decryption

OPTIONS

- Video decoding with resolution and frame rate conversion

MAP PRO DATA RECEIVER

PRO DATA DVB-S/S2/S2X

The **MAP Pro Data Receiver** has been designed and implemented as a flexible data receiver for satellite, internet and hybrid satellite / Internet data broadcasting applications. Live streams of video, audio and IP data.

Designed to meet the demands for very high speed delivery of IP streams and files, the **MAP Pro Data** is the ideal store & forward receiver. This flexible high speed receiver is intended as a COTS solution for military customers. Sustainment includes remediation of vulnerabilities identified by NESSUS as well as implementation of DOD Security Technical Implementation Guidelines (STIGs). The product is available for export under the provisions of ITAR.

Rotating Hard disk drives are not used to reduce noise and increase reliability and availability.

The MAP Pro Data uses SSD memory for application storage to improve ruggedness.

Flexible Configurations

The MAP Pro Data can be deployed in either a one-way satellite, Internet only or hybrid satellite + Internet configuration. Local storage can be added for content storage.

Video Decoding with PVR

Video decoding with HDMI output along with local PVR recording and playout functionality is supported as an option.

Decryption Options

Cyphercast decryption is supported with remotely changeable keys when used in conjunction with Cyphercast encryption at the headend. High performance IP stream decryption with Cyphercast using smart cards is included.





Rear Panel

DUAL RF INPUTS	
Number of demodulators	2 for simultaneous operation
Frequency Range	950 to 2150 MHz
Frequency Tuning Steps	Synthesized 1 Hz steps
AFC Range (drift tracking)	± 10% Symbol Rate up to ± 2 MHz
Maximum Input Level	-35 to -65 dBm
Connector	2x Type-F, female
Impedance	75 ohms, unbalanced
LNB DC Power	+ 18 VDC maximum (horizontal polarity), or + 13 VDC at 500 mA (vertical polarity) center conductor positive, short circuit protected
LNB Requirement	• DRO type for high symbol rates, stability ± 2 MHz max • PLL type for low symbol rates, stability ± 25 kHz max
Diagnostics	RF input signal level, Es/No (C/N), Margin to threshold, Modulation, and FEC.
DVB-S	
FEC Type	DVB concatenated, Viterbi and Reed-Solomon
MODCOD	QPSK 1/2, 2/3, 3/4, 5/6, 7/8
Roll-off	35%
Symbol Rate	0.250-64 MBaud
DVB-S2	
MODCOD (CCM and VCM supported)	QPSK 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 16APSK 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 32APSK 3/4, 4/5, 5/6, 8/9, 9/10
Roll-off	20%, 25%, 35%
FEC Type	Concatenated LDPC and BCH
Symbol Rate	0.100 - 64 MBaud
Gold Code - PLS	0 to 262143

DVB-S2X	
MODCOD (CCM & VCM supported)	
QPSK	1/4, 1/3, 2/5 (S2-MODCODs) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (S2-MODCODs) 13/45 9/20, 11/20
8PSK	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (S2-MODCODs) 23/36, 25/36, 13/18
8APSK-L ⁽¹⁾	5/9, 26/45
16APSK	2/3, 3/4, 5/6, 8/9, 9/10 (S2-MODCODs) 26/45, 3/5, 23/36, 25/36, 13/18, 7/9, 77/90
16APSK-L ⁽¹⁾	5/9, 8/15, 1/2, 3/5, 2/3
32APSK	3/4, 4/5, 5/6, 8/9, 9/10 (S2-MODCODs) 32/45, 11/15, 7/9
32APSK-L ⁽¹⁾	2/3
64APSK	11/15, 7/9, 4/5, 5/6
64APSK-L ⁽¹⁾	32/45
128APSK	3/4, 7/9
256APSK	32/45, 3/4
256APSK-L ⁽¹⁾	29/45, 2/3, 31/45, 11/15
Roll-off	5%, 10%, 15%, 20%, 25%, 35%
Symbol Rate	0.100 - 64 MBaud
VIDEO	
FECFRAME (normal)	64,800 bits
Interface	HDMI/Subtitles & Close Captions
Format	1920x1080 @ 50/60 FPS 720x576 @ 50/60 FPS
POWER REQUIREMENTS	
Supply Voltage	100 to 240 VAC, +6%, -10%, 50 or 60 Hz
Power Consumption	45 Watts (not including LNB power)
PHYSICAL PARAMETERS	
Chassis	EIA - 1RU with 2 or 4 point rack mounting
Dimensions (H, W, D)	1.74in H x 17in W x 10.725in D 44.2mm H x 431.8mm W x 272.42mm D
Weight	5.7 lbs (2.6 kg)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	0° to 45° C (32° to 113° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Maximum 90% relative, non-condensing

¹MODCODs optimized for quasi-linear channels