



HEIMDALL

Aeronautical Radio Communication Recording System

HEIMDALL EPTA Module



Part Number:	31494
General Description:	Audio Interface (radio TX/RX or another source) - Optical Fiber. EPTA Station Side.
Specifications:	
Operating Voltage:	90 VCA ~ 250 VCA - 60 Hz.
Consumption:	15 W (average).
Operating Temperature:	0°C ~ +65°C.
Humidity:	10% ~ 85% (non-condensing).
Weight:	4,5 Kg.
Optical Interface:	
Fiber / Range:	Multimode / Monomode - 4 KM / 20KM
Wave-Lenght:	850 / 1310 / 1550 nm.
Transmission Power:	-5 dBm.
Sensitivity:	-33 dBm.
Connector:	SC.
Audio Interface:	
Input voltage range:	+1 V to -1 V (all inputs have galvanic isolation).
Sampling Rate:	32 KHz.
Resolution:	16 Bits.
Audio Channels:	3 inputs (2+1).
Bandwidth:	100 Hz ~ 10 KHz.
MIC IN:	600 Ohms (typical for dynamic microphone).
LINE IN:	600 Ohms (typical).
Dimensions:	300 mm x 300 mm x 132 mm.
Materials:	Metal, fiberglass, plastic.

General Description:	Audio Interface (radio TX/RX or other source) - Optical Fiber. CCTV Rack Side (to be used with existing recorder).
Specifications:	
Operating Voltage:	90 VCA ~ 250 VCA - 60 Hz.
Consumption:	15 W (average).
Operating Temperature:	0°C ~ +65°C.
Humidity:	10% ~ 85% (non-condensing).
Weight:	4,5 Kg.
Optical Interface:	
Fiber / Range:	Multimode / Monomode - 4 KM / 20KM
Wave-Lenght:	850 / 1310 / 1550 nm.
Transmission Power:	-5 dBm.
Sensitivity:	-33 dBm.
Connector:	SC.
Audio Interface:	
Input voltage range:	+1 V to -1 V (all inputs have galvanic isolation).
Sampling Rate:	32 KHz.
Resolution:	16 Bits.
Audio Channels:	3 inputs (2+1).
Bandwidth:	100 Hz ~ 10 KHz.
MIC IN:	600 Ohms (tipical for dynamic microphone).
LINE IN:	600 Ohms (tipical).
Monitoring Features:	
Video Status (camera):	Video loss, video message: "NO VIDEO".
Link Status:	Link loss, video message: "NO AUDIO".
Hardware Status:	Recorder fault, video message: "RECORDER OFF".
Software Status:	Recording software fault, video message: "RECORDER STOPPED".
Dimensions:	300 mm x 300 mm x 132 mm.
Materials:	Metal, fiberglass, plastic.

HEIMDALL Recorder Module



Part Number:	31438-1 / 31438-2
General Description:	Aeronautical Video and Audio Recorder with minimum autonomy of six (06) months of history to EPTA.
Specifications:	
Video (Recording):	
Number of Channels:	01 or 02, as chosen.
Video Compression:	H.264 & MJPEG.
Resolution:	NTSC:720x480 @ 176x120 - PAL:720x576 @ 176x144.
Frame Rate:	30/25 (NTSC/PAL).
Audio (Recording):	
Number of Channels:	01 or 02, as chosen.
Audio Compression:	AAC-LC.
Sampling Rate:	16 KHz.
Resolution:	64 Kbits/s.
Optical Interface:	
Fiber / Range:	Monomode / 20 Km, Multimode / 2 Km.
Wave-Lenght:	1310 / 1550 nm.
Transmission Power:	-5 dBm (typical, monomode 20 Km).
Receiver sensitivity:	-33 dBm (typical, monomode 20 Km).
Recorder:	
Chipset & Socket:	INTEL H8 / LGA 1150.
Processor & RAM Memory:	INTEL Core i3 / 4GB DDR 3.



Specifications:	
Internal Storage:	
Disc 01:	120 GB (SSD), OS Windows 7 / Debian Linux.
Disc 02:	4 TB (Standard) – Audio & Video storage.
Disc 03 (optional):	4 TB (Standard) – Audio & Video storage.
Softwares:	
Recordings management and export application.	
External Connectors:	
BNC:	04 – 02 input e 02 output (loop), Composite Video - 75 Ohms - 1Vpp.
RJ45:	02 – RJ45: 10/100/1000 Mb/s.
ST:	01 – ST Optical connector, monomode or multimode fiber.
VGA:	01 – HD-15 Connector, VGA.
USB:	02 – USB 2.0 standard ports.
Power:	01 – IEC60320 – Male C14.
Operating Voltage:	90VAC ~ 250VAC @ 50Hz ~ 60 Hz.
Consumption:	75 W (average).
Operating Temperature:	0° C ~ +65° C.
Humidity:	10% ~ 85% (non-condensing).
Weight:	5,2 Kg.
Dimensions:	500mm x 500mm x 95mm.
Materials:	Metal, fiberglass, plastic.