

Introduction

The product is a video codec board for airborne applications, supporting professional video formats, and adaptable to a wide range of operational requirements. The compact housing is resistant to difficult environments, and is adapted to airborne and terrestrial applications. The product uses wavelet, intra-frame compression technique to provide low latency and high robustness against transmission errors. Highly configurable, it can be used in a wide range of operational conditions

Specifications

S.No.	Parameter	Specifications
1	Video Input	BNC or SMA
2	Video Input Standard	SD Analog (PAL)
3	Number of video inputs	1
4	Video frame rate (User configurable)	5 to 25 images/second
5	Output Bit rate (User configurable)	From 1 Mbps to 16 Mbps
6	Compressed data format (User configurable)	RS-422, TTL
7	Compressed data interface	Clock + Data
8	Configuration Interface	RS232 (2400 to 115200 bps)
9	Digital Connector	Micro-D 25
10	Compression	JPEG2000 (Wavelet)
11	Compression CODEC compatibility	Openjpeg, J2K-Codec
12	Supply	7VDC to 32VDC
13	Power	< 6 Watt
14	Power Connector	Circular 4 pin
15	Operating Temperature	-40°C to +85°C
16	Weight (with enclosure)	< 500 gm
17	Weight (without enclosure)	< 150 gm
18	Environmental	Airborne

Deliverables:

1. Encoder Unit
2. User Manual (Detailed instructions, Operating Procedure and Configuration Procedure)
3. 12 Months Warranty
4. Mating connectors

Tests:

1. Functional
2. Thermal
3. Environmental