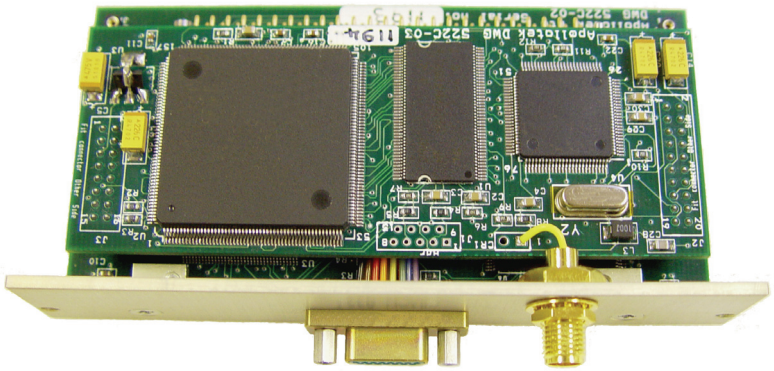
APOLLOTEK

ApolloDas 8600 VCM Series
Video Compression Module

Features:

- PAL, NTSC, SECAM Composite Video or Luminance and Chrominance Input Signals
- Programmable Picture Resolution
- Programmable Frame Rate
- Programmable Video Compression Characteristics
- MPEG-2 Video Compression
- MPEG-4 Video Compression
- H.263 Video Compression
- Motion JPEG Video Compression
- Fully integrated with the ApolloDas 8600 Series of stand alone and distributed PCM Encoders and Flight Test Instrumentation
- Multiple Video Compression Modules can be integrated with ApolloDas 8600 Signal Conditioning modules in the same chassis
- Digitised Compressed Video words can be inserted into ApolloDas 8600 IRIG 106 PCM Frame Formats
- Video replay is fully supported by the Apollotek GDSmate Telemetry Environment Software Package
- Available in stand alone Video Compression System configurations
- Serial Output options for connection to Apollotek RF Transmitters
- Ethernet Interface Options
- Rugged construction suitable for airborne applications



The Apollotek single channel Video Compression Module is part of the ApolloDas 8600 series of modular rugged Flight Test Instrumentation and Telemetry Instrumentation.

The module is designed to be integrated into a standard ApolloDas 8600 Chassis assembly as part of a stand alone or distributed data acquisition system.

Bytes of compressed video data are transferred into the ApolloDas 8600 Frame Format through interaction with the Encoder Control Module. Windows based software is provided to enable the video compression module variables to be set up by the user.

Picture resolution is selectable up to 704 pixels wide by 510 pixels high as standard. Higher resolutions can be supported as an option.

Video data display is provided by Windows CODECs and can be displayed as a video overlay in the Apollotek GDSmate software package supplied with Apollotek signal recovery and decommutation systems.

The Video Compression module is also capable of stand alone operation in single channel and multiple channel configurations.

Additional applications include fixed and mobile video surveillance including UAV video and data links when integrated with other Apollotek transmission and reception instrumentation.

Apollotek Ltd Unit 3 Cypress Court Sunbury on Thames England Tel: +44 1932 780410 Fax +44 1932 780334 e-mail: info@apollotek.co.uk

ApolloDas 8600 VCM Series
Video Compression Module

SPECIFICATIONS

Video Input Processing:

PAL, NTSC, SECAM Composite Video input

Chrominance and Luminance Inputs

AGC or fixed gain

Wide chrominance and luminance bandwidth for PAL and NTSC

Video Scaler for variable size windows

Dual 9-bit video ADC channels

Mechanical:

Dimensions

Standard module is a double width ApolloDas 8600 Module with nominal dimensions of:

Dual Module Width:	22 mm
Length:	110mm
Height : (including top panel connectors)	65mm

Environmental:

Normal Operating Temperature	-15^{O} Centigrade to +70^{O} Centigrade baseplate temperature
Vibration	>20g sine, 0.1 g ^{2} random, 20Hz to 2000Hz, in any axis
Shock	100g for 1 ms in three mutually perpendicular axes
Acceleration	100g in three mutually perpendicular axes

Software Setup:

Interactive software Module Set up and loading facilities including storage of video mission set up files are provided together with module status reporting and suggested video set-up advice including selection of:

- Video Input Control
- Source Type Selection
- Input Video Format
- Input Video Resolution
- Frame Rate
- Output Video Resolution
- Video Input Format
- Compression Mode
- HPI Buffer Size