

Features:

- Multiple independent Input Channels in one chassis
- Provides a total analogue signal bandwidth of greater than 50 MBits/second which can occupy a single recording channel or can be allocated as required to record multiple signals at different data rates
- Optional Multiple Channel Analogue multiplexing and recording capability
- Unique Apollotek Analogue signal processing and Digital transformation implementation provides a faithful reproduction of the analogue signal
- Easy to use Touch Screen User Interface to control recording and replay
- Runs the Windows XP Operating System
- 19 inch Rack Mounting versions available
- Unique Internal Bit Synchroniser and PCM Decommulator Options
- Multiple Apollotek Bit Synchronisers and PCM Decommulators can be incorporated into the chassis
- The Apollotek range of Products, Systems and Solutions includes airborne flight test instrumentation, solid state recorders, telemetry transmitters and a wide range of PC based Telemetry and Avionics Groundstation instrumentation configurations



The Apollotek APK8770 series of Data Recorders are designed to provide data recording and replay of multiple data channels as typically provided by the outputs of Telemetry Receivers or similar devices.

The Data to be recorded is processed by an Apollotek FPGA based digital signal processing unit and then the data is stored in real time onto an internal hard disk subsystem. A time tagging option is also available.

Data is replayed from the hard disk and then processed to provide Data Outputs which faithfully represents the originally recorded data content.

A simple user interface similar to a standard VCR or DVD recorder is provided through a touch screen display on the front panel of the unit.

The APK8770 Recorder runs under the Windows XP Operating System and the unit can also therefore be used as a desktop computer and all Windows file management, storage, retrieval and file transfer facilities are available to the user.

The APK8770 can also incorporate modules from the ApolloDas 8600 range of multiple channel signal conditioning modules to provide a complete data acquisition and recording system.

Other models in this range of Apollotek Recorder products can incorporate multiple Analogue Channel data recording in addition to providing analogue signal re-constitution and replay.

STANDARD RECORDER SPECIFICATIONS**Electrical and Performance Specification**

Analogue Recording Bandwidth	Up to 50 MBPS as standard. Higher data rate options using SATA RAID storage
Input Signal Amplitude	0.4 V to 6 V (± 3 V peak-to-peak)
Input Signal Impedance	50 Ohms or 10 KOhms as standard
Input and Output Signal Connectors	BNC Rear Panel Connections for each channel
Channel Output Signal Level	TTL or RS422 Levels as standard
Output Signal Impedance	50 Ohms or 10 KOhms as standard
Networking	Gigabit Ethernet I/O port provided

System Specification

Power Requirements	Nominal 230 V ac 50 Hz supply
Software	Set-Up and controlled using Windows XP The Apollotek GDSmate Telemetry Environment Software package can be incorporated as an extras cost item

Operational Environmental Specification

Temperature	0 ° Centigrade to +50 ° Centigrade
Humidity	0 to 90% non-condensing

Non-operating in appropriate packaging

Temperature	-25 ° Centigrade to +70 ° Centigrade
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Model Numbers:

8770-1	Single Stream Input Bit Synchroniser Unit
8770-2	Dual Stream Input Bit Synchroniser Unit
8770-3	Triple Stream Input Bit Synchroniser Unit
8770-4	Quad Stream Input Bit Synchroniser Unit
8770-1x1	Single Stream Bit Synchroniser and Decommulator Unit
8770-2x2	Dual Stream Bit Synchroniser and Decommulator Unit
8770-3x3	Triple Stream Bit Synchroniser and Decommulator Unit
8770 4x4	Quad Stream Bit Synchroniser and Decommulator Unit

Also available:

8780-1	Single Channel Analogue Recorder and Replay System
8780-2	Dual Channel Analogue Recorder and Replay System
87XX-X	Application specific Recording and Replay configurations