

Features:

- USB Powered PCM Decommutator
- Single PCM Stream Decommutation and multiple merged stream Decommutation capability
- Embedded Asynchronous PCM Stream Decommutation capability
- USB 2 connection to Host PC
- Powered from Host PC
- TTL Data and Clock Inputs
- RS422 Data and Clock Inputs
- Integrated IRIG B Time Code Reader
- Greater than 20 MBPS Bit Rate Operation
- Lock and Status LED Indicators
- Frame Format stored in non-volatile memory when powered down
- Displays Lock Status of Stored Frame Format when externally powered and not connected to a USB Host Computer
- Wide operating temperature range
- Rugged Construction
- Supports IRIG 106 Frame Formats
- Supports SFID, FAC & FCC
- Supplied with single stream GDSmate software providing PCM Frame Format definition and :
 - Control of Raw Data Archiving to Disk
 - Graphical Data Displays
 - Tabular Data Displays
 - Engineering Unit Conversions
 - Data Export in common file formats

APK8761 Standard USB Unit



APK8761-IA Airborne Unit

The Apollotek 8761 series of USB 2 powered miniature rugged PCM Decommutator provides Decommutation of clocked serial NRZ-L PCM data streams and provides data transfer to a host PC. Options are available to provide multiple PCM Stream outputs from a merged PCM Stream or an embedded asynchronous PCM Stream.

The Apollotek GDSmate Software package is provided with these units to graphically display data and also to archive in real time, replay and export data.

The dimensions of the standard USB Decommutator are 105 mm long by 55 mm wide and 21 mm high. The Low Profile APK8761-E has a nominal height of 15.6 mm

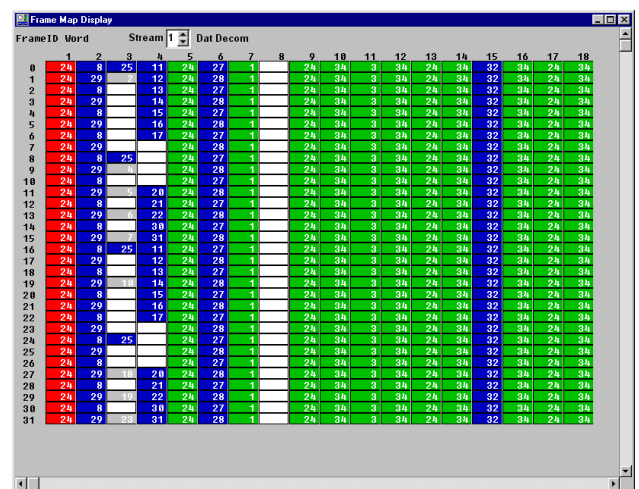
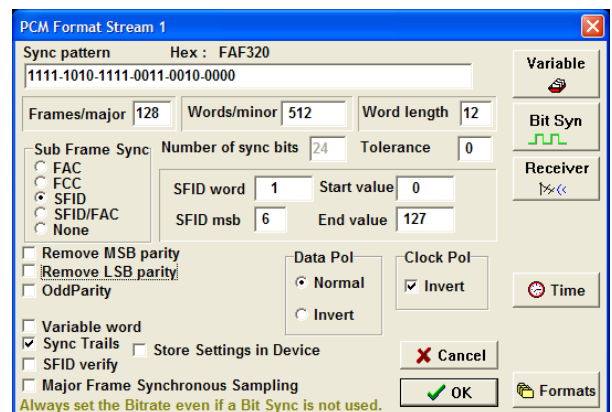
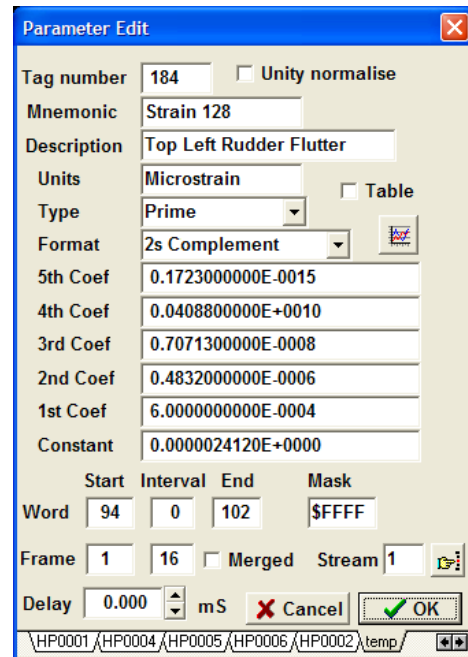
The USB Decommutator plugs into a standard PC USB 2 port and is powered through the USB port of the host PC. The unit will transfer data at the highest speed at which the Host PC USB port can accept the data. This includes full speed USB data transfer.

The 8761 USB Decommutator accepts data and clock signals from the output of a Bit Synchroniser such as the Apollotek APK8762 series.

An IRIG B Time Code Reader function is also incorporated into the Decommutator to provide accurate time stamping of decommutated frames of PCM Data.

USB Decommutator Software

- the Apollotek GDSmate Software supplied with the unit is a single stream PCM Decommutation version of the product which includes graphical and tabular data displays, data archiving and file export facilities
- The User Parameter Database is developed interactively through a Parameter Edit form. Each Parameter can be allocated a unique Mnemonic and Description.
- The User can apply up to 5th order linearising and calibration coefficients to each decommutated parameter. A Maths Processor editor provides additional processing functions.
- A PCM Frame Format form is used to set up the Decommutator Frame synchronisation strategy.
- The selected default time stamp source can be IRIG or Computer PC Time derived.
- Secondary Forms are presented for definition of variable word length formats.
- An Interactive colour keyed graphical presentation of the Frame Map for PCM or Message Map for Serial Bus data streams is provided. The user can point and click on a parameter in the frame map and get immediate access to the Parameter Editor.
- The standard Single Stream USB Decommutator Software licence can be upgraded to the full version of GDSmate to provide multiple user operation and simultaneous processing of multiple data streams on a single computer or as part of a networked Server / Client installation.



All specifications are subject to change without notice E & OE