wyle laboratories

Telemetry and Data Systems

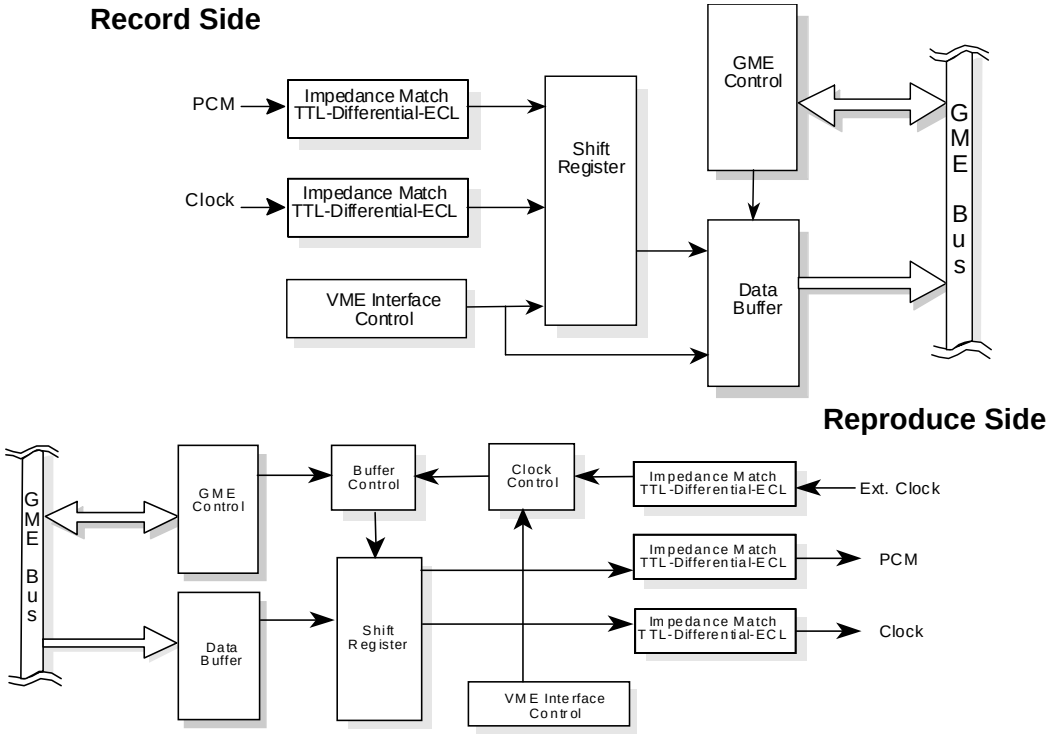
PCM Input and Output Submodules
PCM-405-02 and PCM-406-02

Features

- **Accepts PCM to 25 Mbps**
- **Multiple Signal Level Interfaces**
- **Complete Data and Clock Reconstruction**
- **Internal Bit Synchronizers Available**

Introduction

The IMUX PCM Input and Output cards support data rates of up to 25 Mbps in formats that exceed the IRIG 106-93 Class II configurations. The PCM modules plug into the IMUX-323 and -324 Quadraplex boards in both the airborne and laboratory chassis. Input and output signal levels and impedance are selectable. Both 0° and 180° clocks are supported on the input and output modules. Data recording, which is supported by the PCM Input and Output modules, ensures that all data is captured and not a single bit is lost. Viterbi cards and bit synchronizer modules are also available. Over 500 bit synchronizers are in the field today operating from 100 bps to 40 Mbps.



Inputs (PCM-405-02)	Sources	Single channel per mode
	Data Source	NRZ-L Data and 0° clock or 180° clock
	Data Impedance	Selectable; 75 (low) and 10,000 (high ohms, TTL, 120 ohms RS-422
	Signal Levels	TTL (data and clock) Differential RS-422 (data and clock) Differential ECL (data and clock)
	Input Codes	NRZ-L
	Operating Range	DC to 20 Mbps
	Input Stability	Burst or isochronous
Outputs (PCM-406-02)	Serial Data Output	NRZ-L
	Output Drive	TTL into 75 ohm, ECL & RS-422
	Data to Clock Skew	Less than 10 nanoseconds
	Parallel Data Output	24- or 32-bit data, 8-bit tag to GME bus
	Clock	0° or 180°
Electrical and Environmental	Form Factor	IMUX Quadraplex Single Submodule
	Connectors	Motherboard I/O
	Operating Temperature	32 °F - 158 °F (0 °C - 70 °C)
	Storage Temperature	14 °F - 185 °F (-10 °C - 85 °C)
	Operating Altitude	0 – 10,000 feet (0 – 3,100 meters)
	Storage Altitude	-1,000 to 20,000 feet (-300 – 6,200 meters)
	Humidity	20 to 95% noncondensing
Ordering Codes	PCM-405-02	PCM Input, 32 Mbps
	PCM-406-02	PCM Output, 32 Mbps

Tel 301.737.1555 ■ Email telemetry.info@wylelabs.com ■ Fax 301.737.1564 ■ Web www.wyletds.com