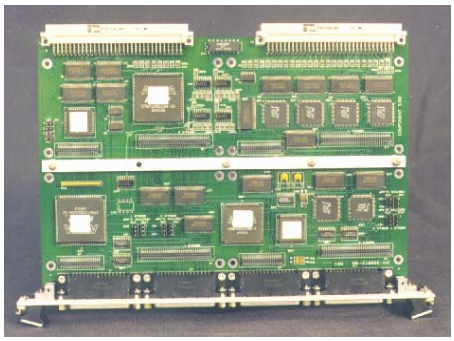
PCM Input and Output Submodules
PCM-407 and PCM-408

Features

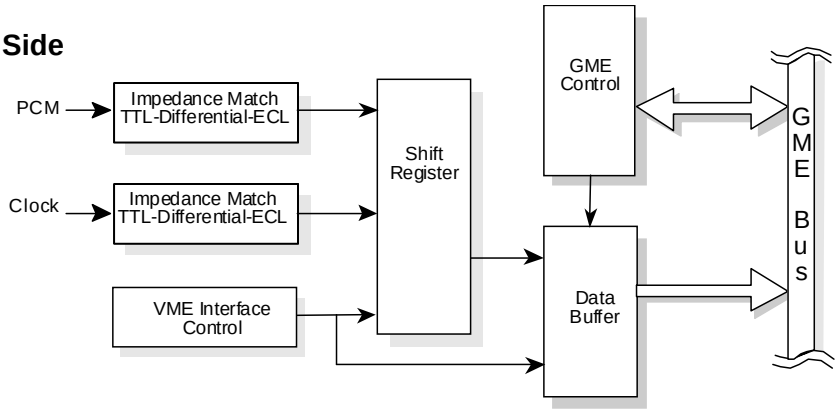


- **Accepts PCM to 20 Mbps**
- **Up to 10 Inputs**
- **Multiple Signal Level Interfaces**
- **Complete Data and Clock Reconstruction**
- **Internal Bit Synchronizers Available**

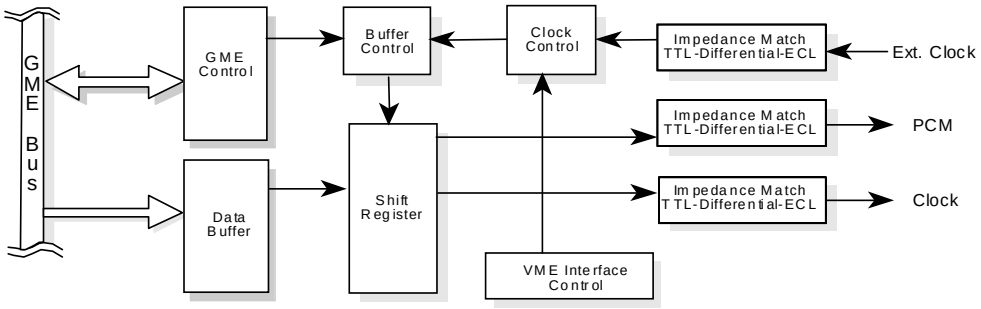
Introduction

The IMUX Multichannel PCM Input and Output cards support data rates of up to 20 Mbps in formats that exceed the IRIG 106-93 Class II configurations. The PCM modules plug directly into the IMUX backplane 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 Multichannel PCM Input and Output cards, 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.

Record Side



Reproduce Side



Inputs	Sources	Ten (10)
(PCM-405-02)	Data Source	NRZ-L Data and 0° clock or 180° clock
	Data Impedance	Selectable; 75 ohms (low) and 10,000 ohms (high) TTL
		120 ohms RS-422
	Signal Levels	TTL (data and clock)
		Differential RS-422 (data and clock)
	Input Codes	NRZ-L
	Operating Range	100 bps to 20 Mbps
	Input Stability	Burst or isochronous
Outputs	Serial Data Output	NRZ-L
(PCM-406-02)	Output Drive	TTL into 75 ohms and RS-422
	Data to Clock Skew	Less than 10 nanoseconds
	Operating Range	100 bps to 20 Mbps
	Clock	0° or 180°
Electrical and	Form Factor	VME 6U board
Environmental	Connectors	44-pin output connectors
	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-407-02	Multichannel PCM Input
	PCM-408-02	Multichannel PCM Output

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