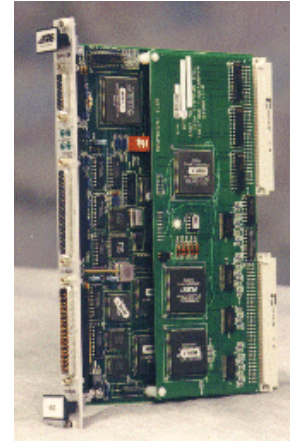


## Digital Recorder Multiplexer Interface RIO-301/311

### Features

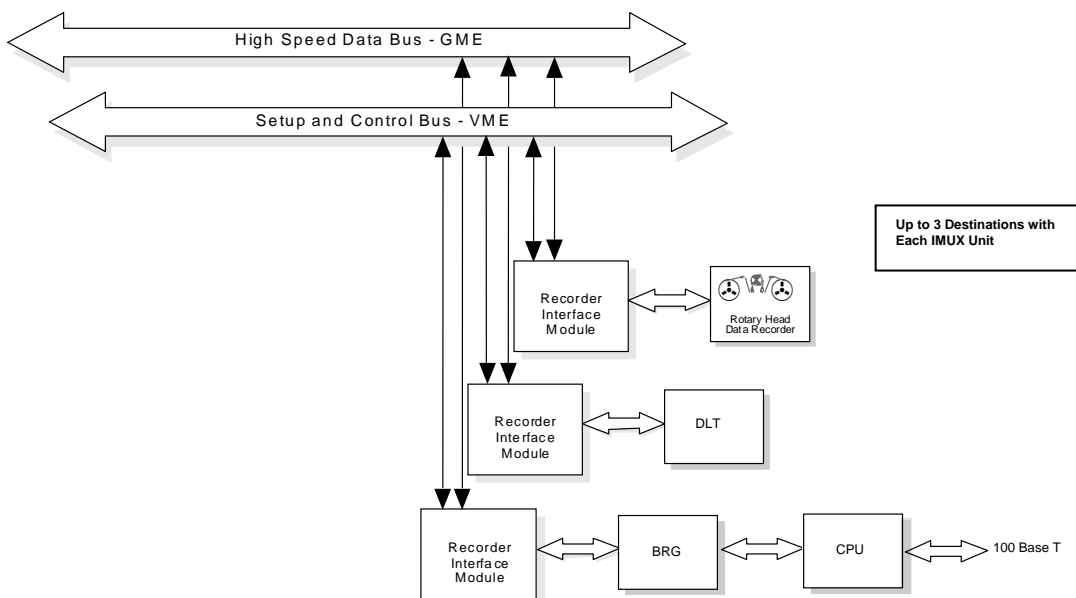
- Up to three Interfaces per System
- Selectable Channel Data Flow Assignment
- Parallel Differential 8-Bit Data Port/Ultra SCSI Port Routing
- High-performance Digital Peripheral and Instrumentation Device Recording
- Throughput to 300 Million Bits/Second
- Built-in Self-test and Status Monitoring



### Introduction

IMUX recorder multiplex/demultiplex interface cards support a wide range of standard high-speed, digital recording and data distribution applications. The RIO-301 card supports multiplexed, multi-channel digital data distribution with full data and control interfaces for a wide range of digital devices. RIO interface modules support an easy-to-use, "start it and forget it" mode data capture operation with powerful tag management mode capabilities. This enables users to select data channels for routing to select devices and provides real-time data sorting to serial port and network interfaces. High-speed parallel output buffers ensure consistent and continuous operation, maintaining data flow output under the most rigorous storage and communication conditions.

Only the IMUX line offers up to three recorder multiplex/demultiplex interfaces within a single data system. This gives the user the power to select and route channel data in real-time to multiple ports, storage devices, and network interfaces.



<b>Inputs</b>	Sources Maximum Cards/System Operating Card Range Operating Range/System	8- to 32-bit tag from GME bus Up to 3 per system Up to 300 Mbps Up to 512 Mbps
<b>Processing</b>	Tag Selection System Throughput	8-bits, selectable and routable by tag content 512 Mbps
<b>Outputs</b>	Parallel Data Parallel Data Control Lines	8-bit differential User-supplied clock Data ready control line Block sync input Set input
<b>Parallel Data</b>	Serial Control Serial Control Baud Rate Serial Interface Data Operating Range/Card Data Operating Range/System	RS-232 or RS-422, selectable 300 to 38,400 baud 7-8 bits, odd/even/no parity, 1 stop bit Up to 300 Mbps Up to 512 Mbps
<b>Electrical and Environmental</b>	Form Factor Connectors Indicators Operating Temperature Storage Temperature Operating Altitude Storage Altitude Humidity	6U Versa Module Europe (VME), single slot D-subminiatures Active, FIFO overflow and block sync 32 °F - 158 °F (0 °C - 70 °C) 15 °F - 185 °F (-10 °C - 85 °C) 0 to 10,000 feet (0 – 3100 meters) -1000 to 2000 feet (-300 to 6200 meters) 20 to 95% noncondensing
<b>Ordering Information</b>	RIO-301-xx through RIO-311-xx	Contact our factory for the model personalized for your application.