EDIO ASIC — **I/O Control ASIC**

Features

- 832 digital input/output control points, including
  - 768 remote input/ output points
  - 32 high speed input/ output points which can be planned as input or output points
  - 32 exclusive high speed input points
- Built-in 24 bits timer and 16 bits watchdog timer
- Built-in ISA bus bar interface circuit

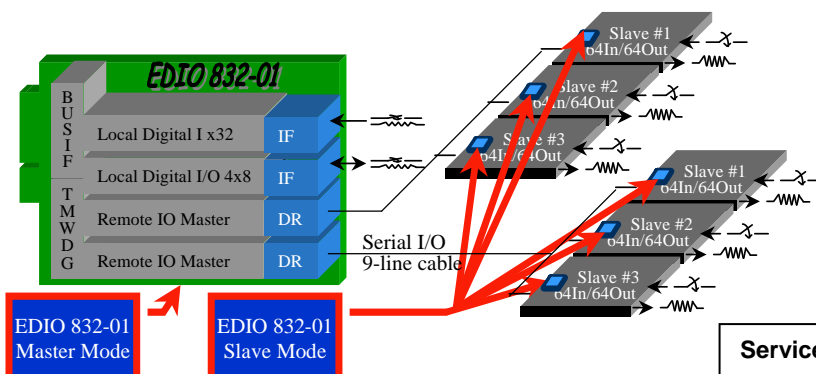

Introduction

The EDIO 832-01 30,000 Gates ASIC is an exclusive pure digital input/ output control chip, mainly applied on the input/output points of ordinary industrial machinery. In application, only add simply driving and receiving Master Mode and in conjunction with remote input/output Slave Mode, it will form a 832 points input/ output control system. Since it greatly simplified wiring and reduced the complexity of control system, it allows the reduction of manufacturing and maintenance cost and promotes system reliability and maintainability.

Specifications

- IC Work Clock:8MHz~40MHz
- Data Bus bar Width:16
- Remote input / output
  - Form: Master -Slave
  - Number of Sets: 2 (each set contains one master and 3 slaves)
  - Serial Interface Communication format: Set by Mechanical Institute
  - Input and output points of each slave: each of input and output with 64 points
  - Total input / output points: 384 points for input and output

- Chip direct digital input/ output
  - number of points: 4 points 8 sets
  - Input or output points: all 8 sets can be set as input or output
  - Points can be interrupted: 8 points with interruption function
- Chip direct digital input
  - number of points: 4 points 8 sets
  - Points with interrupting function: 7 points with interruption function
- Timer
  - Length: 24 bits
  - With interrupting function
  - Can be software fix time reference signal
- Watch Dog
  - Length: 16 bits
  - Reset:signal length can be planned
- Update Time
  - 100us in 1MHz-25Meter / 1 channel
  - 300us in 1MHz-25Meter / 6 channel
  - Programmable transmission clock 80KHz~2.5MHz - 5 Meter in 40MHz Clock