

## MPU 431



- *Standard Reference : IEC61131-2 (Third Edition, 2007)*
- *Two channels Communication Backbone*
- *Two independent 100Mbps Uplink Ethernet Port*
- *Redundancy support : Full-redundant in all aspects*
  - *Redundant backbone communication media*
  - *Redundant uplink port*
  - *Redundant power input*
- *Panel Indicator LED's :*  
*Power, Fault, Communication, Run, Redundant*
- *Programmable Internal Temperature Alarm*

| <b>Main Processor Specifications</b>           |   |
|--|---|
| <i>Program memory</i>                          | <i>Flash, 16MB (Expandable to 64MB)</i>                       |
| <i>Application memory</i>                      | <i>DDR-SDRAM, 64MB</i>  |
| <i>Backup memory for parameters (optional)</i> | <i>SRAM, 1MB (Expandable to 2MB)</i>                          |
| <i>Backup battery for RTC and SRAM</i>         | <i>Rechargeable with capacity of at least 300 hours</i>       |
| <i>Other features</i>                          | <i>Watch Dog Timer,<br/>Real Time Clock,<br/>Alarm Signal</i> |
| <i>Communication interfaces</i>                | <i>2 X 1Mbit/s backplane</i>                                  |
|  | <i>2 X 10/100 uplink (Ethernet)</i>                           |
| <i>Indicator LEDs</i>                          | <i>Power, Run, Redundant, Error, Com1, Com2</i>               |
| <i>Redundancy support</i>                      | <i>Full-redundant in all aspects</i>                          |
| <i>Power consumption (from backplane bus)</i>  | <i>Maximum : 7.5W</i>   |
|  | <i>Typical : 5W</i>   |
| <i>Operating temperature</i>                   | <i>0 to 70 °C</i>   |
| <i>Storage temperature</i>                     | <i>-40 to 85 °C</i>   |
| <i>Relative humidity</i>                       | <i>10 to 95%</i>  |
| <i>Reference standard</i>                      | <i>IEC 61131-2</i>  |

- *Main Features:*
  - *Hot Insertion*
  - *Full Redundancy*
  - *Full Protections*
  - *Full Diagnosis*
  - *Isolation (between I/O's to backplane bus)*
  - *Live (each I/O module have a mini processor card)*
  - *Redundant backbone communication*
  - *EMC Compliance*