# PICCOLO

Presentation Topics

- Applications with Piccolo Series
- Hardware
- Software
- Integration / Networks
- Examples of applications
- Today and future
- Conclusion

Application with Piccolo Series

- Great solution for automation with low number of inputs and outputs points
- Aplicações com vários grupos de poucos pontos
- CPU with low cost
- CPU with integrated I/O
- High power processing
- It allows local HMI or network connection
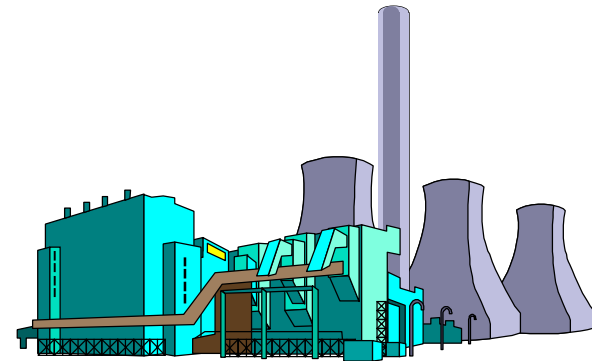
- CPU
  - Clock: 15 Mhz
  - LEDs indicators for CPU status
  - Watch Dog Timer
  - Memory: 16/32K RAM e 16/32K E2PROM
- I/O Points
  - Input: 24Vdc
  - Output: Relay and/or Transistor
  - Analog points: (I/O configurable)
  - High speed Counter inputs (up to 10kHz)
  - Expand up to 132 I/O
- Dimensions (h x w x d): 117 x 92 x 98 mm
- Interface: Local HMI or ALNET-I Net

PL 101	PL102	PL103	PL104	PL105
8I+6O	14I+10O	16I+16O	16I+16O	8I+6O
	2 Analog I/O	2 Analog I/O	2 Analog I/O	
	2 Counters	2 Counters	2 Counters	
1 port	1 port	1 port	3 ports	3 ports
RS-232C	RS-232C	RS-232C/485	RS-232C/485	RS-232C/485

Piccolo : Software Mastertool

MASTER*Tool*

Ambiente Windows!!

- Language structured by blocks and relays
- Programming by TAGs
- Windows platform
- On-line programming

Integration / Networks

- HMIs connection:
  - Foton Series
  - Differente SCADAs
  - HMIs with ALNET-I interface

- ALNET-I connection:
  - Supervision
  - Controlling
  - Maintenance
  - Integration

- Applications with few I/O points:
  - Controlling Machines
  - Manufacturer Machines
  - Positioning Machines
- Applications with various groups of points
  - Building automation
  - Lab work bench (universities, schools).
- Installations where the machine plant is changed several times
- Installations where space is critic