

## Intelligent Brushless Drive IMDC compact & low voltage

**3 in 1**  
Motion controller  
PLC  
Drive



### Advanced Motion functions

Positioning 	Gearbox 	CAM profiles 
Registration 	CAM boxes 	PLC 

### Applications

Automatic storage & retrieve system  
Medical  
Low voltage machine  
Embedded system

### Security

Setup & program on  
Memory Stick

### Performances

- Setup tools
  - Trajectory generator
  - Instrument panel
  - Hyper terminal
  - Oscilloscope
- Software workshop
  - Basic Motion Tasks
  - Trajectory array
  - CAM profiles



## Compact size



## Integrated communication

**CANopen**

**Modbus**



<b>Power supply</b>	24 to 48 V DC $\pm 10\%$	
<b>Auxiliary supply</b>	24 V DC $\pm 10\%$ , 0.5A typical (0.7A max if all options)	
<b>EMC Filter</b>	Integrated	
<b>Nominal current</b>	IMDC/10 : 10 Arms	IMDC/20 : 20 Arms
<b>Peak current (2s)</b>	IMDC/10 : 20 Arms	IMDC/20 : 40 Arms
<b>Nominal power</b>	IMDC/10 : 480 VA	IMDC/20 : 960VA
<b>External brake resistor</b>	Mini value : 4.7 $\Omega$ Max continue power 400W Braking threshold : 58 V DC	
<b>Architecture</b>	32 bit Processor :150 MHz DSP and 100 000 gate FPGA memory: FLASH, FRAM, RAM and Memory Stick* Real-time multi-tasking kernel	
<b>Control loops</b>	Current loop : 75 $\mu s$ - Speed loop : 150 $\mu s$ - Position loop : 150 $\mu s$	
<b>Motor feedback</b>	Resolver	
<b>Master encoder</b>	Incremental, Absolute SSI, Virtual	
<b>Communication</b>	MODBUS RTU, CANopen	
<b>Inputs / Outputs</b>	4 digital inputs (with 2 fast 1 $\mu s$ ) / 2 digital outputs Additional module 12 digital inputs / 8 digital outputs 500mA*	
<b>Diagnostic</b>	Status display	
<b>Operating modes</b>	Torque, speed or position mode Stepper Mode (pulse input, direction) Motion functions (positioning, S profile, gearbox, CAM profiles, synchronization, CAMBOX functions, triggered movement)	
<b>Dimensions W x H x D</b>	53 x 190 x 160.5	

\* Options