

Drive Amplifiers

SMD-07 STEPPER MOTOR DRIVE UNIT

- Bipolar PWM drive technology
- Input Voltage : 24 V to 40 V
24 V to 60 V (SMD-07-HCM)
- Current rating : max. 3.5 amps/phase
(7 amps/phase for SMD-07-HCM)
- Optoisolated inputs
- Resolution : 400 steps/rev.
(2000 steps/rev. for SMD-07-HCM)
- Input signals : CLK, DIR, DEN & RES
- In-built heatsinks
- Termination : Phoenix Terminals



BLD-01 BRUSHLESS SERVO DRIVE

- Wide range of drives from 0.1 kW upto 5.0 kW
- Compact drive unit
- Multimode control ability:
 - Position control
 - Velocity control
 - Torque control
- Adaptive control with self tuning
- Easy to install and use
- Input signals : Clock / Direction
- 4 digital inputs (configurable)
- 4 digital outputs
- Safety features : over current, over voltage, over temperature
- Positioning error indication
- Encoder output available



SRMD-04 DC SERVO MOTOR DRIVE

- Wide range from 0.1 kW upto 5.0 kW
- Analog drive technology
- PWM drive using IGBTs
- Input signals : -10.0V to +10.0V
- Bus Voltage : Max 220 V
- Compact drive unit
- Speed control :
 - Using Tacho feedback
 - Using Back EMF feedback
- Easy to install and use
- Safety features : over current, over voltage



Customers

IDAPL customers include small companies, large corporations, multinationals, Government organizations and overseas customers in India, Europe and Far East. We are proud to state that 90% of our business is from repeat customers.

Customers for Standard Products:

Larsen and Toubro Ltd, Mumbai
Siemens Ltd, Kalwa
Paper Products Ltd, Thane
Bharat Bijlee Ltd, Kalwa
ABC Bearings Ltd, Lonavala
Sansera Engg. Pvt Ltd, Bangalore
Universal Circuits, Coimbatore
ISRO-SAC, Bangalore
MTRDC, Bangalore
Printech, Indore
Chain Electronics Pvt. Ltd, Gandhinagar
Graphonics, Gandhinagar

Customers for Specialized Custom Built Mechatronics Systems:

ISRO-SAC, Ahmedabad
IGCAR-Kalpakam
BARC, Trombay
TIFR, Mumbai

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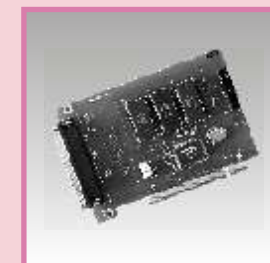
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Interface Design
Associates Pvt. Ltd.

Product Range



Advanced
Mechatronics
and
Automation
Technology

Interface Design Associates Pvt. Ltd. symbolizes the advanced mechatronics and automation technology of the day.

With the right mixture of professionalism, dynamism and experience, a team of seasoned professionals leads IDAPL With a stream of successful client relationships under its belt, the IDAPL team in forging ahead into implementation of new technologies in the merged areas of mechanical, electronics, controls and software engineering.

IDAPL offers standard mechatronics products as well as custom built systems for automation. IDAPL is exporting its products to Germany and Netherlands since 1999.

Product Range:

PC Based CNC Controllers
Standalone CNC Controllers
Drive Amplifiers
Mechatronics Systems

1. PC Based CNC Controllers

IDAPL offers standard PC based motion controllers which are used for different applications like engraving, jewelry automation, robot control, packaging, etc. The systems feature easy to use software. Driver libraries are provided for DOS, Windows and Linux to enable the user to develop his own application under the platform of his choice. Application packages are available for PCB drilling and 3D machining.

2. Standalone CNC Controllers

IDAPL offers standalone CNC Controllers which are used for different applications like machine tools, packaging, indexing tables etc. The systems feature easy to use software. These controllers support ISO standard G & M codes.

3. Drive Amplifiers

IDAPL offers drive amplifiers that covers the whole range of motors for mechatronic applications including stepper motors (2 phase and 5 phase), DC servo motors and AC servo motors.

4. Mechatronic Systems

IDAPL integrates motion controllers and standard mechanical components into standard machines, and also undertakes custom built mechatronic design projects.

PC Based CNC Controllers

SC-04 PCI-SLOT BASED 3 AXIS MOTION CONTROLLER

- Number of axes : 3
- Half Size PC card - plugs into PCI slot
- Address selection - automatically generated
- On-the-fly Step Readback Facility
- Control Output Format : Clock or Phase
- Resolution - Full or Half step (in Phase output format)
- Digital inputs - 16 TTL inputs (6 dedicated to limit switches)
- Digital outputs - 8 TTL outputs
- Interpolation - 3 axis linear, 2 axis circular
- Terminations - D-sub connectors and FRC headers
- Power Supply - from PC SMPS
- Driver Software : Drivers under DOS, Win 98 and Win2K
- Application software :
CNC - a full fledged machine control software supporting 3 axis machining with G & M codes
enCUT - for engraving and jewelry applications
- PCBDRILL- for PCB drilling applications



SER-05 4 AXIS SERVO MOTOR CONTROLLER

- Number of axes : 4
- Half Size PC card - plugs into ISA slot
- Address selection - Using Jumper Settings
- Control Output Format : -10.0 Volts to +10.0 Volts
- 5/12 Volt encoders supported
- 24 bit counters, upto 16777216 counts at 4 MHz
- Digital inputs - 16 TTL inputs (6 dedicated to limit switches)
- Digital outputs - 8 TTL outputs
- Interpolation - 4 axis linear, 2 axis circular
- Terminations - D-sub connectors and FRC headers
- Power Supply - from PC SMPS
- Driver software for DOS and Windows



PIO-64 PCI-SLOT BASED INPUT / OUTPUT CONTROLLER

- Half Size PC card : Plugs into PCI slot
- Number of inputs : 32
- Number of outputs : 32
- Address selection : Automatically generated
- Terminations : FRC headers
- Expansion : Available - upto 3
- Power Supply : From PC SMPS



Standalone CNC Controllers

YANTRA II CNC CONTROLLER

- Powerful 32 bit CPU
- No. of axis : 2 axis + spindle (expandable to 5 axis + spindle)
- 64 MB memory for user programs
- Large 10.4" TFT color display
- 32 digital inputs (expandable to 96)
- 32 digital outputs (expandable to 96)
- Digital axis control outputs : clock and direction
- Spindle control output : analog -10.0V to +10.0V
- Encoder input for spindle encoder (for threading, rigid tapping)
- G & M code support
- User friendly Graphical User Interface
- 32 inputs and 16 outputs for Operator Panel
- Inbuilt MPG input
- Supports 3D machining cycles
- Supports threading cycles



SSC-03 3 AXIS CNC CONTROLLER

- 16 bit CPU
- Number of Axes : 3
- Control output Clock, Direction, Resolution & Drive Enable
- Memory 128KB Flash ROM
- Resolution Full or Half Step
- Digital Inputs 16 (6 Dedicated to limits)
- Digital Outputs 16
- User Interface : 20 x 4 Backlit LCD display
- Membrane Keypad
- Communications RS 485 port
- Interpolation : 3 axes linear interpolation
- Programming ISO Compatible G-Code Software
- Terminations D- Sub Connectors
- Compact housing : 96 x 192 x 200 mm ABS casing



IMC-01 SINGLE AXIS MOTION CONTROLLER

- 8 Bit CPU
- Control output Clock, Direction, Resolution & Drive Enable
- Encoder feedback : 5 Volt A, B, Z
- Digital Inputs 4 Nos
- Digital Outputs 4 Nos
- Communications RS 485 Serial port
- Display : Seven Segment Display
- Data Entry : Membrane keypad
- Programming : through MACRO language or using STEPSE C Library
- Terminations : D-SUB connectors
- Compact housing : 96 x 96 x 150 mm ABS casing

