

# ARM 7 DEVELOPMENT BOARD PROGRAMMER

OMEGA TYPE OE-5004



ARM 7 Development Board OE-5004 is a 32-bit development platform and serves as a means for code development. This trainer is designed for students to explore ARM architecture and on board supporting peripherals which provide an ideal platform for extensive embedded development. This trainer provides both the serial and USB connections which can be used to download and run a code on any standard IDE. This trainer allows users to evaluate, prototype and create application specific designs.

#### **OBJECT**

**FEATURES** 

microcontrollers

03

04

06

07

08

09 10

11

12

- 01 Study and analysis of interfacing of LEDs
- 02 Study and analysis of interfacing of Switches
- 03 Study and analysis of interfacing of 16 x 2 Alphanumeric LCD
- 04 Study and analysis of interfacing of 12 bit Internal ADC
- 05 Study, analysis and programming for Transmission & Reception of data through UART 0
- 06 Study, analysis and programming for Transmission & Reception of data through UART 1
- 07 Study, implementation, analysis and interfacing of 4 x 4 matrix keypad

LPC2294 (ARM 7 TDMI 32 Bit) MCU clocked at 12MHz

Both USB & RS232 interface given for programming

Every pin is marked in order to make the work easier

Master Reset/Restart Key for hardware reset On board 16 x 2 Alphanumeric LCD Interface

On board UART 0 and UART 1 Interface

Expansion connectors for plug in modules and prototyping

On board Flash download utility (programmer) for Philips

A SIGN OF

- 13 On board facility to connect JTAG debugger
- 14 Input/Output & test points provided on board
- 15 Self contained trainer with on board DC and AC power supply
- 16 CD with sample project code, Programmer software & useful documents
- 17 Exhaustive course & reference material

#### **TECHNICAL SPECIFICATIONS**

 01 MCU
 : LPC2294

 02 Crystal frequency
 : 12MHz

 03 LEDs
 : 08 Nos.

 04 Switches
 : 04 Nos.

05 Keypad : 4 x 4 Matrix Keypad
06 ADC : 10 Bit Internal ADC
07 Display : 16 x 2 Alphanumeric LCD

08 Serial communication : Two RS232 Port
09 Programmer : USB/Serial port
10 Programmer mode selection: RUN/ISP Switch

11 Baud rate : 9600 bps (for both USB &

Serial port)

12 Programmer unit : Ready to run programmer will program Philips flash devices

13 Test points : 07 Nos.

14 Interconnection : 2 mm patch cords and FRC

cables

15 Mains supply : 230V ± 10% 50Hz
16 Power consumption : 20V A (approximate)
17 Dimensions (mm) : W340 x H125 x D210
18 Weight : 1.3kg (approximate)

### LIST OF ACCESSORIES:

01	RS232 serial cable	01 Nos.
02	USB cable	01 Nos.
03	20 Pins FRC connector .	01Nos.
04	Patch cord 2 mm length	50cm.02 Nos.
05	Software CD	01Nos

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## **OMEGA ELECTRONICS**

Works:

28E & F, Malviya Industrial Area, Jaipur-302 017 (INDIA) Phone: 0141-2751559

On board Switch Interface

On board I2C Interface

On board ADC (10 Bit) Interface On board 4 x 4 Matrix Keypad Interface

E-mail: info@omegaelectronics.net : omegajaipur62@gmail.com

**Marketing Division:** 

B-28, Fateh Singh Scheme, Opp. Rajputana Palace Sheraton, Jaipur-302006 (INDIA) Phone: 091-141-2375647, 2379223