



Interfacing Module are useful for Teaching/Training to interface with any Microprocessor, Microcontroller, Embedded, VLSI Trainer Kits. This Modules are designed to interface through 8255, MCU Port I/O's, 50 Pin KXT Bus. Most of the Interfacing Module are supplied in Australian Pine Wood Enclosure.

**43225 - ADC-0809 Interfacing Module**

- Connect to 8255 using 26 pin FRC Connector.

**43226 - DAC-0800 Interfacing Module**

- Connect to 8255 using 26 pin FRC Connector.

**43227 - AD574 Interfacing Module**

- Connect to 8255 using 26 pin FRC Connector.
- ADC module using ADC-0809.
- 8 bit accuracy ADC chip
- Eight Channel on-chip multiplexed ADC.
- A/D Conversion time 100 micro sec.
- SOC, EOC, O/P enable can be accessed by user.
- Provision of 0 to 5V variable source using Potentiometer for One channel.
- Eight channel analog inputs are provided at Screw Terminals.
- User's Manual with Sample Programs.
- DAC module using DAC-0800.
- 8 bit accuracy DAC chip
- Dual Channel DAC using 2 Nos. of DAC-0800.
- DAC Settling time 100 ns
- DAC Output are provided at 2 Test Points.
- User's Manual with Sample Programs.
- ADC module using AD-574 Chip.
- 12 bit accuracy ADC chip
- Single Channel ADC module.
- A/D Conversion time 15 micro sec.
- Analog inputs are provided at Screw Terminals.
- User's Manual with Sample Programs

**43228 - Digital Input & Output Interfacing Module**

- 8 Digital Inputs provided through 8 way DIP Switch
- 8 Input LED Indicators are provided
- 8 Output LED Indicators are provided
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

**43229 - Elevator Simulator Interfacing Module**

- Four Floor Elevator Simulator model
- Each Floor LED indication are provided
- Up & Down Lift position indication by 10 Nos. of LEDs
- Four Keys are provided to access each floor.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

**43230 - IC Tester Interfacing Module for IC-7400**

- 14 Pin IC-7400 IC is provided.
- On-board two nos. of 14 pin socket and one no. of 16 pin Socket provided.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

**43231 - Four Digit Seven Segment Display Module**

- Four Digit Seven Segment display.
- Serial in Parallel out shift register technique is used to display.
- Two port pins are used to display in seven segment.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

**43232 - Stepper Motor Controller Card with Motor**

- Two/Four phase motor can be controlled.
- Half Step, Full Step can be controlled.
- Clock Wise & Anti Clock wise rotation can be controlled
- Speed can be controlled by this controller
- Maximum 2Kg cm Motor can be controlled.
- 0.25Kg cm Motor supplied along with module.
- Provision for connecting external 5V/12V supply to drive the motor
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

**43233 - 5x4 Key's Matrix Keyboard Interfacing Module**

- 5x4 Keys matrix Keyboard.
- Keyboard consist of 20 keys.
- Consist of Hexadecimal numerals from 0 to 13.
- Keys are organized as Four Rows & Five Columns
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

Note: Specifications are subject to change.

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#### 43234 - 16x1 LCD Display Module

- 16x1 Liquid Crystal Display.
- One 16 rows Alphaneumeric Characters will be Displayed.
- Facility for backlite display.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43235 - 16x2 LCD Display Module

- 16x2 Liquid Crystal Display.
- Two 16 rows Alphaneumeric Characters will be Displayed.
- Facility for backlite display.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43236 - Traffic Light Controller Module

- Single square traffic light display controller
- East, west, north, south post are defined on the PCB for the square.
- For each post four LEDs are provided in form of Red, Yellow & Green.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43237- Temperature Measurement Module

- ADC module using ADC-0809.
- 8 bit accuracy ADC chip
- A/D Conversion time 100 micro sec.
- Opamps are provided for signal conditioning to output from sensor.
- K-type thermocouple are used for the measurement.
- Thermocouple sensor is supplied with the module.
- Variable pot should be provided for adjusting gain and offset.
- Temperature measured maximum up to 99°C
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43238 - DC Motor Controller Card with Motor

- 8 bit accuracy DAC chip using DAC-0800.
- SPDT Relay is provided for direction control
- Clock Wise & Anti Clock wise rotation can be controlled
- Speed can be controlled by this controller
- 9 Volt DC Motor .
- 9 Volt AC Adaptor.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43239 - Relay & Opto Coupler Interfacing Module

- Four SPDT Relay are provided.
- NO, NC, COM Relay outputs are provided at Screw Terminals.
- Four Opto isolater inputs are provided using MCT2E.
- Opto Inputs are provided through 10 pin FRC Connector.

- Connect to 8255 using 26 pin FRC Connector.

- User's Manual with Sample Programs.

#### 43240 - 8x8 LED Matrix Display Module

- 8x8 LED Matrix Display.
- Display consists of 64 nos. 3mm LEDs.
- LEDs are organized as Eight Rows & Eight Columns.
- All LEDs should be buffered.
- Connect through 26 pin FRC Connector using 8255
- User's Manual with Sample Programs.

#### 43241 - Thumb Wheel Switch Card

- Two Digit Thumb Wheel Switch.
- Thumb wheel switch can be set from 00 to 99.
- Output of Thumb wheel switch should be in BCD Format.
- Connect to 8255 using 26 pin FRC Connector
- User's Manual with Sample Programs

#### 43242 - Light Sensing Module using LDR.

- Light Sensing device using LDR
- For Alarm indication one SPDT Relay is provided.
- Relay output is provided in connector.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43243 -Infrared Tx/Rx Module for 8051

- Infrared Transmitter: IR LED 920nm
- Infrared Receiver: Direct TTL output
- Baud Rate: 2.4kbps (max)
- Carrier Frequency: 38Khz
- Connect through Tx/Rx of 8051.
- User's Manual with Sample Programs.

#### 43244 - Opto Isolated Input Module

- 8 bit OPTO Isolated input using MCT-2E IC.
- OPTO inputs indication are provided by 5mm LEDs.
- OPTO inputs are provided through 16 pin Connector.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43245 - Opto Isolated Input Module

- 8 bit OPTO Isolated output using MCT-2E IC.
- OPTO outputs indication are provided by 5mm LEDs.
- OPTO output are provided through 16 pin Connector
- External +12V provision is provided for isolation .
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43246 - 101 ASCII Keyboard Module

- 101 ASCII PC Keyboard interface.
- PC Keyboard interface through 89c2051 Microcontroller.
- PC Keyboard AT-type Connector is provided with Keyboard.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

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#### 43247 - Real Time Clock (RTC-6242) Module

- Real Time Clock using IC 6242.
- 32.678 Khz Crystal are provided.
- Date, Month, Year can be measured.
- Seconds, Minutes, Hours can be measured.
- Connect through 40/50 pin FRC Connector
- User's Manual with Sample Programs.

#### 43248 - Seven Segment Display with Matrix Keyboard Module

- 5x4 Keys matrix Keyboard.
- Keyboard consist of 20 keys.
- Consist of Hexadecimal numerals from 0 to 13.
- Keys are organized as Four Rows & Five Columns
- Study of techniques like software debouncing, Keyboard scanning, key closer, two key lockout, keyboard encoding & Pausing.
- On-board Four Digit Seven Segment display.
- Serial in Parallel out shift resistor technique is use to display.
- Two port pins are used to display in seven segment.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43249 - 16x2 LCD Display with Matrix Keyboard Module

- 5x4 Keys matrix Keyboard.
- Keyboard consist of 20 keys.
- Consist of Hexadecimal numerals from 0 to 13.
- Keys are organized as Four Rows & Five Columns
- Study of techniques like software debouncing, Keyboard scanning, key closer, two key lockout, keyboard encoding & Pausing.
- On-board 16x2 Liquid Crystal Display.
- Two 16 rows Alphaneumeric Characters will be Displayed.
- Facility for backlite display.

#### 43250 - 8 Bit AD/DA Interfacing Module

- ADC module using ADC-0804.
- 8 bit accuracy ADC chip
- Single channel ADC.
- A/D Conversion time 100 micro sec.
- 8 bit accuracy DAC chip using DAC-0800
- DAC Settling time 100 ns
- Analog inputs & Outputs are provided at Screw Terminals.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43251 - Level Simulator Module

- Four Level Simulator model
- Each Level LED indication are provided
- Up & Down Level position indication by 10 Nos. of LEDs
- Lower & upper level limit can be set by software
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43252 - Six Digit Seven Segment Display Module

- Six Digit Seven Segment display.
- Decoder technique is use to display.
- Two port pins are used to display in seven segment.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43253 - Parallel to Serial & Serial to Parallel Module Ic-74595 & Ic-74165

- 8 bit Parallel to serial convertor using IC-74165.
- Eight Parallel Input are indicated by LEDs.
- Serial to 8 bit parallel convertor using IC-74595.
- Eight Parallel Output are indicated by LEDs.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Program.

#### 43254 - Two Square Traffic Light Module

- Two square traffic light Display Controller
- East, west, north, south post are display on the PCB for the square.
- For each post four LEDs are provided in form of Red, Yellow & Green.
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43255 - Interface for DOT-MATRIX Printer

- 80/120 Column Dot-matrix Printer interface
- Connect to 8255 using 26 pin FRC Connector.
- User's Manual with Sample Programs.

#### 43256 - ANALOG TO DIGITAL Convertor Using AD7109

#### 43257-8 BIT ANALOG TO DIGITAL & DIGITAL TO ANALOG MODULE Using ADC-0809 & DAC-0808

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