

# VEND-HAT01

Vending HAT board



## Features

- Entry level intelligent vending solution without motor
- Support MDB/DEX/EXE vending feature
- Provide LCD/Keypad/CAN for vending extension function
- Optional 3G HAT for connectivity
- Power range: 12~45Vdc, 16~24Vac

## Specification

| Specification |                        | Specification                               |                                | Others   |                                      |  |               |
|---------------|------------------------|---|--------------------------------|----------|--------------------------------------|--|---------------|
|               |                        | Item  | Specification                  |          |                                      | Item                                       | Specification |
| Specification | MCU                    | 1 x MCU PIC32MX795F512L-80I                 |                                |          | UART                                 | 1 x 4 pin UART wafer box                   |               |
|               | External I/O Connector | USB   | 1 x wafer box 4 pin header     |          | FAN                                  | 1 x Fan 4 pin locking pin header           |               |
|               |                        | I2C   | 1 x I2C master 4 pin wafer box |          | Battery pin                          | 1 x 4 pin battery wafer box                |               |
|               | 1-Wire                 | 1 x 4 pin 1-WIRE wafer box                  |                                |          | GPIO                                 | 2 x GPIO wafer box                         |               |
|               | SPI                    | 1 x SPI 12 pin locking wafer box(master)    |                                | Optional | 1 x power sensor                     |  |               |
|               | ADC                    | 1 x 6 pin ADC wafer box                     |                                |          | 1 x rechargeable lithium-ion battery |  |               |
|               | LCD                    | 1 x 20 pin LCD wafer box                    |                                | Others   | Form Factor                          | HAT architecture                           |               |
|               | Keypad                 | 1 x 10 pin Keypad wafer box                 |                                |          | Dimension                            | 85.6 mm x 56.5 mm                          |               |
|               | Internal I/O Connector | DIO   | 1 x 30 pin DIO wafer box       |          | Power Range                          | 12V-45V DC, Max (MDB)                      |               |
|               |                        | DEX   | 1 x 4 pin DEX wafer box        |          |                                      | 16V-24V AC (PROTOCOL A/EXECUTIVE)          |               |
|               | DEX Switch             | 1x DEX 3 pin master/slave switch pin header |                                |          | Operating Temperature                | 0-60°C                                     |               |
|               | MDB                    | 1x 8 pin MDB wafer box                      |                                |          | Operating Humidity                   | 0% ~ 90% relative humidity, non-condensing |               |
|               | Protocol A             | 1 x 6 pin Protocol A(EXE) wafer box         |                                |          | Certification                        | CE,FCC                                     |               |
|               | CAN                    | 1 x CAN 4 pin wafer box                     |                                |          |                                      |  |               |