

Intelligent vending solution with



UP

bridge  
the gap

# Intelligent Vending Solutions



## UP-VEND01 Specifications

Architecture	HAT architecture
PCB size	85.6 mm x 56.5 mm
DEX	1 x DEX 4 pin locking header (Master/Slave by jumper)
MDB (master)	1 x MDB pin header (master)
MDB (slave)	1 x MDB pin header (slave)
CAN	1 x CAN 6 pin header
UART	1 x UART 4 pin locking header
Protocol-A(EXE)	1x pin header (co-lay switch with MDB master)
I2C	1 x I2C master 4 pin header
1-Wire	1 x 1-Wire 4 pin header (master)
SPI	1 x SPI 12 pin locking header(master)
DIO	1 x Digital IO 26 pin locking header
Analog-to-digital converter	1 x 12 bit analog-to-digital converter (ADC) locking pin header
single line LCD display	1 x single line LCD display 16 pin locking header
4*4 keypad	1 x 4*4 keypad 8 input pin header
FAN	1 x Fan tech 4 pin locking header
connection interface	1 x HAT 40 GPIO male/female pin straight header
External I/O connector	1 x wafer box 6 pin header
Power range	12V-45V DC 2A / 9V-24V AC 2A
Optional	1 x power sensor 1 x battery

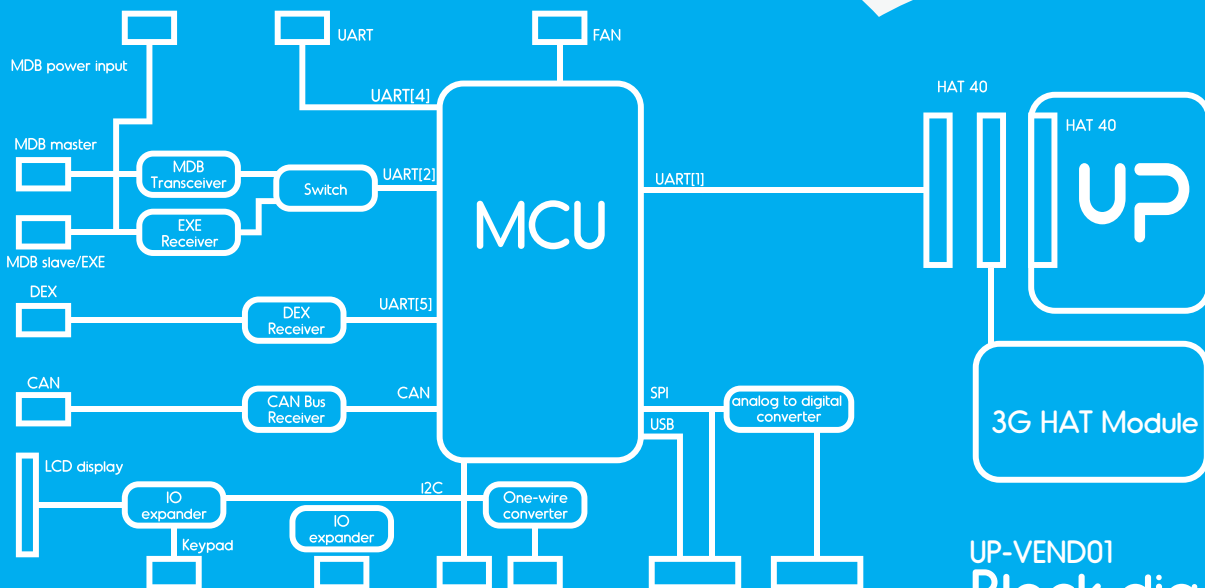


## 3G HAT Module Specifications

Architecture	HAT architecture
PCB size	85.6 mm x 56.5 mm
External I/O Ports	1 x USB Micro-B connector
	1 x 3G modem module(P/N: Quectel UC-20G)
	1 x Micro SIM socket
Internal I/O Connector	1 x DB9 connector (TX/RX/GND,R5-485)
	1 x 1-Wire DS18B20U Temp. Sensor
	1 x 3A Switching Supply
	1 x HAT 40 GPIO male/female pin straight header
Others	1 x 24AA32T EEPROM
	1 x Bi-ColorStatus LED
	2 x Single-ColorStatus LED
Optional	1 x WiFi module(P/N:GWFW-3M08 Module)
	1 x Bluetooth low energy module(P/N:HM-10)

Easy retrofit accessories included:

- DEX/EVA-DTS cable
- MDB power cable daisy chain
- EXECUTIVE power cable daisy chain
- Antenna and cables



## UP-VEND01 Block diagram