

Brand: UIC

Model: BEZEL8-S-UIX

## Description of Operation

Delivers a compact all-in-one design for unattended vending applications

### Quick Features

- All-in-one payment interface (ICC/MSR/Contactless)
- Device manageable, service upgradeable
- NFC Ready
- Linux Operating System
- LCD display
- Compliant with EVA mounting requirements Surface mount options
- EMV Level 1 & Level 2 certification approved, typical payment brand schemes supported
- USB, RS232, Ethernet connectivity

### Circuit Description

The BEZEL8-S-UIX include Main board, Interface board, ICC Board, Antenna board.

BEZEL8-S-UIX has 3 output interfaces: RS232 and USB , Ethernet.

The BEZEL8-S-UIX main board micro controller is SAMA5D23(MicroChip), it support RS232 interface, and support USB 2.0 full speed, LAN Chip is IP101GR. MSR Reader is use MRD532 IC. The RFID reader ST25R3911B is member of a new family of highly integrated reader ICs for contactless communication at 13.56 MHz. This reader IC family utilizes an outstanding modulation and demodulation concept completely integrated for all kinds of passive contactless communication methods and protocols at 13.56 MHz. The ST25R3911B supports all layers of the ISO14443 including the type A and type B communication scheme. Modulation type: ASK. It uses a directly matched antenna to work. The antenna components have three parts:

1. A receiving circuit to receive data sent by the Tag.
2. A filtering and impedance transformation circuit suppresses higher harmonics and optimizes the power transmission to the reader antenna.
3. A matching circuit for the antenna coil to achieve the best performance and the antenna coil itself has to be designed.

Interface board transform TTL232 to RS232 and signal to connector.

Wi-Fi function, dual-band 1x1 802.11 a/b/g/n

-Frequency range: 2412-2462MHz ,

-Channel numbers:1~11

-Modulation type: DSSS/OFDM

| Antenna      | Trade Name | Model No.   | Type         | Gain    |
|--------------|------------|-------------|--------------|---------|
| WLAN 2.4 GHz | M.gear     | SRF20231914 | PCB Antenna  | 1.5 dBi |
| RFID         | UIC        | B8-S        | Loop Antenna | ---     |

# Tune up range

## Tune-up Range:

| <i>Band</i>  | <i>Frequency (MHz)</i> | <i>Tune-up Power (mW)</i> |
|--------------|------------------------|---------------------------|
| WLAN 2.4 GHz | 2412 - 2472            | 57.54                     |
| NFC          | 13.56 - 13.56          | 1.00                      |

Part 15B complies with SDoC.