

Operational Description

The product is Smart POS system, it can support WiFi/BT/NFC/GPS/GSM/WCDMA/LTE wireless technology.

The main control chip is SM6225, the chip WCN3950 is for Wi-Fi/BT/GNSS function, the chip WTR2965 is for GSM/WCDMA/LTE function, the chip PN7160A1EV/C100 is for NFC function. The GPS is only receiver.

The product contains one 12MHz crystal, one 38.4MHz crystal, one 27.12MHz crystal, one 12MHz crystal, one 26MHz crystal, one 27MHz crystal and three 24MHz crystals.

The 2.4GHz WLAN, BT, 5GHz WLAN, WWAN and 13.56MHz can transmit simultaneously.

The RF details as below:

Power supply:	Adapter Model: CYZS36-240150 Input: 100-240V~50/60Hz 1.5A Output: 24V 1.5A 36W Battery Model: LKPA Nominal Voltage: 7.2Vdc Limited Charge Voltage: 8.4V Rated Capacity: 2500mAh,18.0Wh Nominal Capacity: 2600mAh,18.72Wh
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2.4G WLAN

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1.01 dBi(Provided by the manufacturer)

BT

Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PIFA Antenna
Antenna Gain:	1.01 dBi(Provided by the manufacturer)

BLE

Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1.01 dBi(Provided by the manufacturer)

5G WLAN

Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)

Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac20: 20MHz; 802.11n/ac40: 40MHz; 802.11ac80: 80MHz
DFS Function:	Slave without Radar detection
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-1:1.98dBi, U-NII-2A:2.07dBi, U-NII-2C:2.08dBi, U-NII-3:2.12dBi (Provided by the manufacturer)
Remark: 5600MHz to 5650MHz band can not be operated in Canada	

13.56MHz

Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna

2G

Support Network:	GSM, GPRS, EGPRS
Operation Frequency Band:	GSM850/GSM1900
Modulation Type:	GMSK for GSM/GPRS/EGPRS 8PSK for EGPRS
GPRS Class:	8/10/12
EGPRS Class:	8/10/12
Antenna Type:	PIFA Antenna
Antenna Gain:	GSM850: -0.36dBi (Provided by the manufacturer) GSM1900: 3.62dBi (Provided by the manufacturer)

3G

Operation Frequency Band:	UMTS B2, B4, B5
Modulation Type:	UL QPSK, BPSK DL QPSK, BPSK
Antenna Type:	PIFA Antenna
Antenna Gain:	UMTS B2: 3.62dBi (Provided by the manufacturer) UMTS B4: 3.09dBi (Provided by the manufacturer) UMTS B5: -0.36dBi (Provided by the manufacturer)

4G

LTE Operation Frequency Band:	LTE Band 2,4,5,7,12,13,17,25,26,30,38,40,41,66,71
Modulation Type:	QPSK, 16QAM, 64QAM
Antenna Type:	PIFA Antenna
Antenna Gain:	Band 2:3.62dBi(Provided by the manufacturer) Band 4: 3.09dBi(Provided by the manufacturer) Band 5: -0.36dBi(Provided by the manufacturer) Band 7: 3.56dBi(Provided by the manufacturer) Band 12: -0.22dBi(Provided by the manufacturer) Band 13: 0.33dBi(Provided by the manufacturer) Band 17: -0.22dBi(Provided by the manufacturer) Band 25: 3.62dBi(Provided by the manufacturer) Band 26: -0.36dBi(Provided by the manufacturer) Band 30: 3.47dBi(Provided by the manufacturer) Band 38: 4.38dBi(Provided by the manufacturer) Band 40: 3.47dBi(Provided by the manufacturer) Band 41: 4.38dBi(Provided by the manufacturer) Band 66: 3.09dBi(Provided by the manufacturer) Band 71: -1.11dBi(Provided by the manufacturer)