

TS890 SERIES Transaction Terminal (Support Paypass, Paywave, J/speedy, express pay, D-PAS)

Thank you for purchasing the TS890 series products.

The contactless & Signature Pad TS890 is to support the mag-stripe card , EMV / ISO 7816 card and contactless payment systems . The small footprint size of the device makes it easily to integrate to the current transaction system such as Point-of-Sale terminal as the part of the system. The device communicates with bank host by Modem , Ethernet or GPRS. Allow to connect peripherals by RS232 or USB.

FEATURES

- **Build-in thermal printer**
- **Support mag-stripe , ICC , contactless transaction**
- **Support quad-band GPRS communication**
- **Support Modem and Ethernet**

TS890 Specifications

Processor	32 bits high performance processor
Memory System	Flash 8/16Mb , SDRAM 16Mbb .
LCD Display	128 x 64 pixels Graphical Display with LED Backlight
SAM	3 SAM Card Slots (support 5V and 3.3V SAM) (option)
Contactless	Build-in contactless module (option) , supported ISO 14443 13.56Mhz contactless card .
RTC	Battery backup real time clock
Communication	Provided RS232/USB Ports for peripherals connection Provided standard USB Port to connect PC/Terminal Modem/Ethernet/GPRS
Dimensions	(L)199 x (W) 94 x (H) 75mm
Power Requirements	9VDC 5A
Operation Environment	Temperature 0 °C to +50 °C; Humidity 5% to 90%



AGENCY APPROVAL

- Specifications for FCC Class B

Changes or modifications are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Interface RJ11 Pin Assignment (RS232)

The 9.0V power comes from external 9V@5A adaptor , the 5.0V power comes from internal regulator .

Pin Assignment



PIN	232 A	232 B
1	GND	GND
2	CTS	GND
3	Rx	Rx
4	RTS	5.0V .
5	Tx	Tx
6	9.0V	9.0V