ACR320 Ticket Validator Block Diagram

Rev: 1.10   Dated: 7 May, 2012

NAND Flash 512MB

Ethernet DM9000

Colour TFT 5.7" LCD
TM057QDH01

DC/DC Convertor SP6699

Buttons & LEDs

USB Host Transceiver NXP ISP1105W

DC/DC Convertor for USB Host port (LTC3529)

USB Hub Alcor AU9254

LPDDR RAM 256MB

Marvell PXA310
ARM11 core @ 624 MHz
64KB Cache, 256KB SRAM

Contactless card Interface IC RC531

13.56MHz PCB loop antenna

External USB Host Interface

GPRS/WCDMA Module SIM5215

Contact Card Interface IC AT83C26x2

Micro SD I/F

SPI to UART RS232 x 2 MAX 3111E

USB OTG Transceiver SMSC USB3319

SIM Socket

8 SAM Slots

JTAG I/F

Audio Codec with TP I/F WM9713

Wifi Module WM-BG-MR-03

GPS Module SkyLab SKG13C

UART to RS485 transceiver MAX3485

850/900/ 1900/2100 MHz GPRS/WCDMA FPC Antenna

External Power Supply (DC 10V-36V)

Lithium Polymer Rechargeable Battery

Charging IC BQ24061

Tampered Memory with battery backup

2.4GHz chip antenna

1.575 GHz patch antenna

Power Protection Circuit

DC/DC Convertor LM22670 (5V)

Power Management MAX8660

Signal labels: SPI, LCD I/F, PWM, IO, DFI, ULPI, SPI, IO, EMPI, USB OTG, ISO7816, I2C, MMC3, MMC1, SPI, I2C, AC97, JTAG, UART3, IO, UART1, IO

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