

RZ Payment System Partner Solution SYNIC SOLUTION SKY 7000 Payment System



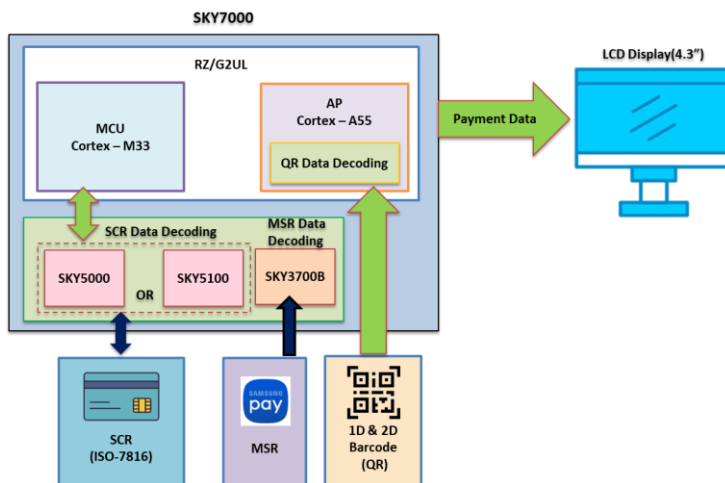
Solution Summary

SYNIC SOLUTION SKY7000 provides compressed system-on-module (SOM) and development carrier board solutions based on Renesas high performance [RZ/G2UL](#) processors. This system provides Smart Card Reader (SCR) payment, Magnetic Stripe Reader (MSR) payment and QR barcode recognition that comply with ISO and EMV standards. Each recognized data is decoded into information necessary for payment through an internal algorithm of the board, and the result can be output to an LCD screen for verification. SKY7000 helps to reduce the development costs and accelerate time to market with an efficient all-in-one module solution.

Features/Benefits

- High speed 1D & 2D Barcode recognition : Average speed **62ms**, Min speed **50ms**
- Support all EMV® standard QR payment methods including Alipay
- Optimizing development environment with Linux kernel and C language-based software
- Expert support for hardware and software design
- Experienced engineering service to assist in EMV® Level 1 certification

Diagrams/Graphics



[All-in-One System On Module]



[Development Carrier Board]

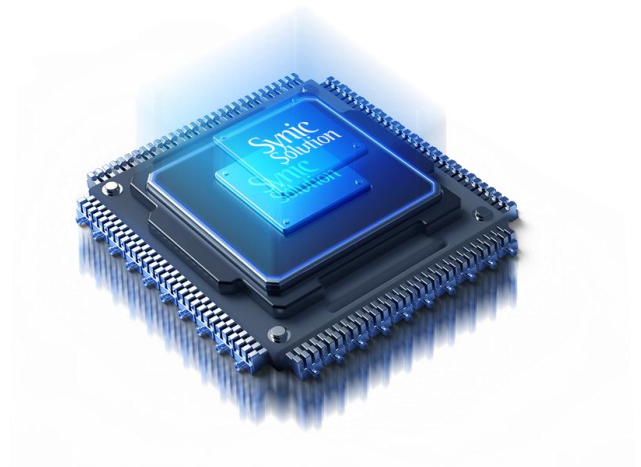
Target Markets and Applications

- Point of sales (POS)
- Barcode payment terminal
- Automated teller Machine (ATM)
- Kiosk
- Credit authorization terminal (CAT)
- Distribution center

System On Module(SOM)	Development Carrier Board
- Board Size : 92(mm) X 70(mm) - Operation temperature : -40°C to +85°C - External Memory : DDR4(1 GB), QSPI-Flash(128 Mb), eMMC(64 GB) - ARM Cortex®-A55 (1.0GHz) & ARM Cortex®-M33 (200MHz) - SKY5000/5100 : 2 Channel EMV4.3 & ISO-7816 - SKY3700B : Simultaneously decode 3 tracks of card data	- Board Size : 220(mm) X 160(mm) - Operation temperature : -40°C to +85°C - Includes 4.3-inch LCD display for data verification - microSD-card interface for built-in AP - MIPI-CSI, Gigabit Ethernet, USBs, UARTs, I2Cs, SPIs, Keypad, GPIOs

Company Name	Synic Solution Co., Ltd.
Headquarters Address	A-707, Pangyo Global Biz Center, 43, Changeop-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Establishment	Jan. 2005
CEO	Hyun Lee(Robert Lee)
Sales Revenue(2024)	KRW 162,573 Million
Members	40(Sep. 2024)
Business Area	-Foundry Service : SK Hynix, Globalfoundries etc -ASSP(IR receiver, Payment Solution) -ASIC -MEMS Microphone -Sales agent for TMC, Wafer works, LB Semicon, Lx Semicon & LDT

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