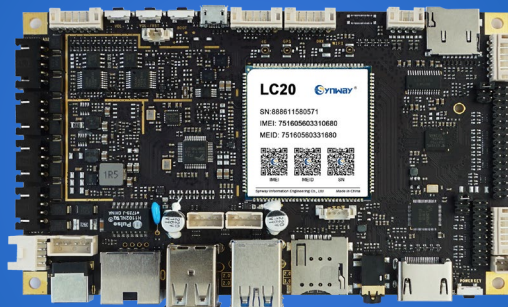# Synway®

Industrial Computer

Android empowered and Rich Functionality
High-performance, industrial-grade processor
High wireless transmission & interoperability

Synway industrial computer, using Synway's own hardware architecture, equipped with Android OS, has been used in a range of applications. It supports 2G/3G/4G protocols in real-time communication, USB 3.0 ultra-high-speed data transmission, 100 megabit cable communications, and LVDS HDMI dual-screen simultaneous/ non-simultaneous display functions. This industrial computer also possesses RS232, RS485, RS422 ports and other standard protocol peripherals. Simplifying the design of the whole machine system, it brings a simple and smooth operating experience and meets individualized needs of customers.

Equipment with data computing and processing power are widely adopted as technical driver In various industrial automation control systems, like industrial robots in the manufacturing industry, intelligent logistics sorting system in the logistics industry, production line monitoring in the field of consumer goods production, etc. Intelligent industrial computers with strong edge computing capabilities, in the entire production process, can play a huge role.
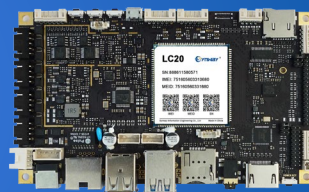

Key Features and Benefits:

Industrial-grade architecture

- High-performance, industrial-grade communication processor
- Android empowered
- Flexible display configuration
- High wireless transmission performance
- Rich peripheral interfaces

Rich functionalities

- Support RS232, RS485, RS422 and other standard peripherals
- Support SD card expansion of storage capacity
- Support mainstream video and visual Codecs/decoding
- Support LVDS and HDMI display interfaces
- Support double screen display or dual-screen-display to drive TFT, LCD displays
- Integrated 2G, 3G, LTE circuits for high-speed wireless data transmission
- Suitable for diverse industrial controlling landscapes, high-definition network playback
- Widely used for video advertising, frame advertising and other applications

Industrial Computer

Product Specifications

Computing Power

C800: CPU, QUALCOMM MSM8909, 4 cores, 1.09GHz; Memory: On-boardLPDDR3 1GB; Built-in memory: EMMC 8GB; Operating system: Android 5.X

C800S: CPU: Standard SDM450 8 core A53 1.8GHz (S-810); High-frequency board MSM8953 8-core A53 2.2GHz (S-810); Memory: On-boardLPDDR3 2GB (S-810); Built-in memory: EMMC 16GB (S-810); Operating system: Android 7.1.2

Flexible Wireless Connectivity

Network support: 2G, 3G, LET, Ethernet, WiFi/Bluetooth 4.0

GNSS: GPS/BeiDou/GLONASS/Galileo

WIFI & BT: Built-in WIFI, BT4.0

Ethernet: 1x10M/100M Adaptive Ethernet

Multimedia Playback

Playback mode: support loop, timing-based, interstitial and more playback modes

Support wmv, avi, flv, rm, rmvb, mpeg, ts, mp4, etc.

Visual format: BMP, JPEG, PNG, GIF

Interface type

USB interface: 1 USB HOST MicroUSB port, 4 USB OTG USB port

Serial port: 1 TTL, 2 RS232, 1 RS422 (compatible with RS485)

SIM card: 1.8V/3/3V, Push-Push Micro-SIM casket

SD Card: Push-Push Micro-SD Card

Video output

C800: LVDS output: single/double, default 720P output; Can drive 50/60Hz LCD screen; HDMI output: single channel, support 720P@600Hz (S-800); Audio and video output: supports left and right audio channel output with built-in 8R/5W amplifier

C800S: LVDS output: one dual-channel LVDS, default 1080p output; HDMI output: single channel, support 1080p, support dual-screen display; I2C: 2-way I2C, can be configured as touch screen interface; IO: default 6* 3.3V IO ports (internal 3.3V pull-up); Screen backlight: 2* brightness adjustable backlight interfaces; Camera: single channel, 1600M MIPI rear camera interface; Support for RTC real-time clock, time-based switcher

About Synway

As a major manufacturer and supplier of communication products and solutions, Synway specializes in providing superior Multimedia Gateway, Integrated Multimedia Switch, Telephony Hardware in use for Telecom communications. www.synway.net