MYiR 米尔电子
Make Your Idea Real

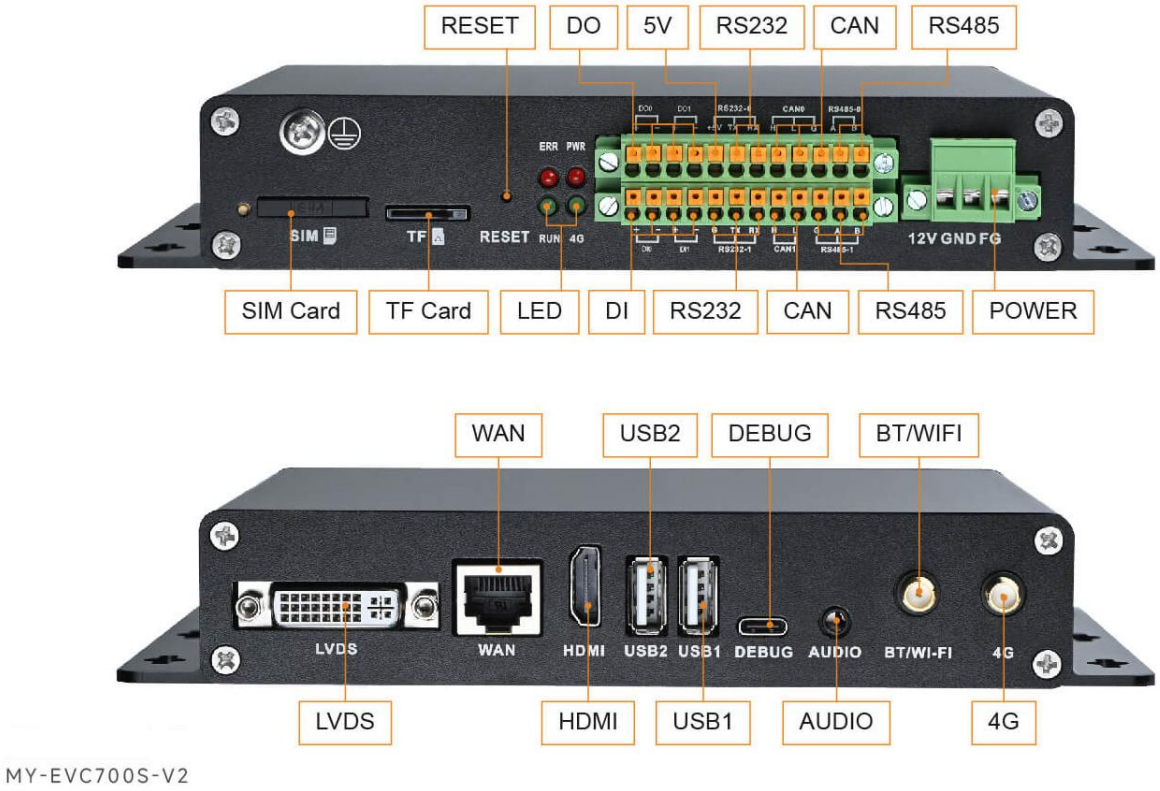
MY-EVC700S-V2
IPC Box
Overview

- ✓ *Integrated Industrial Gateway Solution Based on Allwinner T113-i*
- ✓ *Up to 1.2GHz Dual-core ARM Cortex-A7 MPU with Single-core HiFi4 DSP*
- ✓ *512MB DDR3, 4GB eMMC, 32KB EEPROM*
- ✓ *Debug UART, 2x RS232, 2xRS485, 2x USB Host, 2x CAN, TF Card Slot, Digital Input/Output*
- ✓ *1x 10/100Mbps Ethernet, WiFi/Bluetooth, 4G LTE Module (Quectel EC200MCNLF-I03-MN0CA)*
- ✓ *LVDS Display Interface, Audio*
- ✓ *Supports Linux OS*
- ✓ *Supports Working Temperature Ranging from -40° C to 85° C*
- ✓ *CE Certificated, Long-term Availability*
- ✓ *Supports LVDS-to-HDMI Customization (MOQ200)*

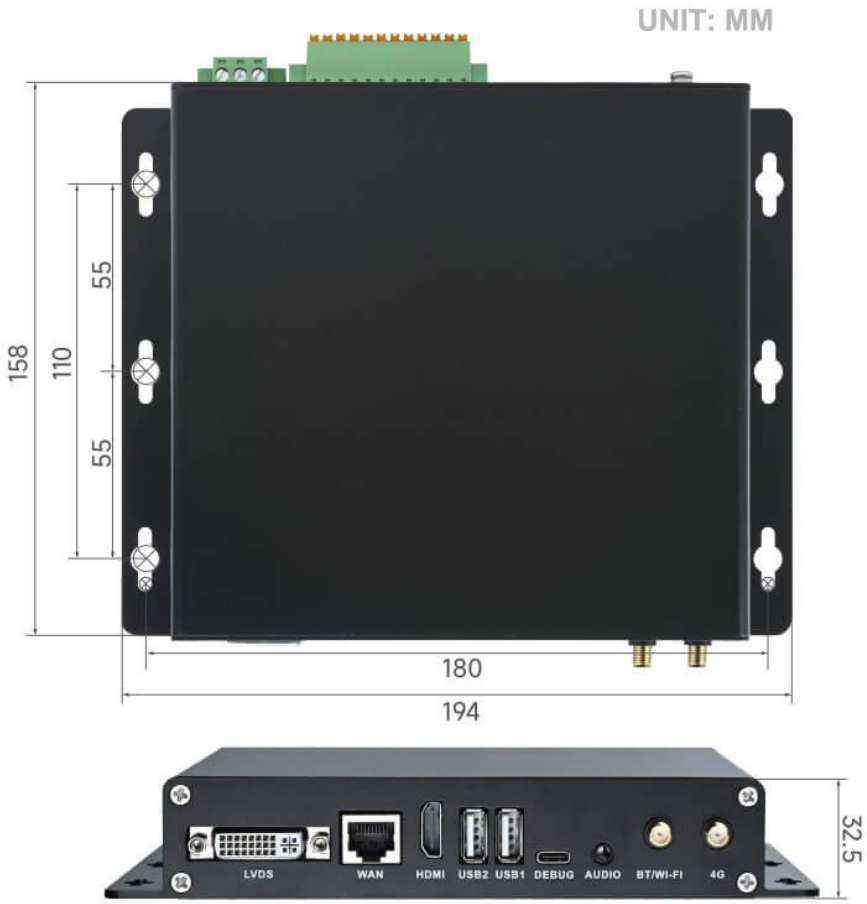
The MY-EVC700S-V2 Industrial PC Box provides an industrial-grade computing solution with robust construction for reliable gateway applications. Encased in a durable metal enclosure with precision-cut openings for peripheral access, this compact system integrates the MYC-YT113i System-On-Module (SOM) with a custom baseboard, equipped with 512MB DDR3 memory and 4GB eMMC flash storage. It delivers a comprehensive connectivity options including RS232/RS485 serial ports, USB 2.0 ports, Ethernet interface, CAN bus and a microSD card slot, along with LVDS display support and audio output capabilities. The architecture enables flexible wireless communications through an integrated WiFi/Bluetooth module and a USB-based 4G LTE module. Pre-installed with Linux OS with QT framework, the system provides source code access to u-boot, kernel and drivers, and associated development tools as well as detailed documentation to enable custom application development. Key features include:

Item	**Features**
SoC	Allwinner T113-i processor - Up to 1.2GHz Dual-core Arm Cortex-A7 CPU - Single-core HiFi4 DSP - Supports H.265/H.264 4K video decoding
Memory	512MB DDR3
Storage	4GB eMMC 32KB EEPROM 1x Micro SD card slot
Communication Interfaces	2x USB 2.0 Host 1x 10/100Mbps Ethernet Interface (RJ45) WiFi/Bluetooth Module (supports BT 5.0) USB based 4G LTE Module (with Quectel EC200MCNLF-I03-MN0CA) 1x SIM card slot 2x Antenna interfaces (One for WiFi/BT and one for 4G) 2x RS232 2x isolated RS485 2x isolated CAN 2x Digital input (DI) 2x Digital output (DO)
Multimedia Interfaces	1x LVDS-to-HDMI Interface (Reserved function, can be customized) 1x Audio output 1x LVDS Display Interface 1x Buzzer
Others	1x Reset button 4x LEDs (PWR, ERR, RUN, 4G) 1x RTC
Power supply	Rated power: ≥ 15W; Rated voltage: DC12V, Input range DC9V-15V
Dimensions	194mm x 158mm x 32.5mm
Working Temp.	-40°C ~+85°C
OS	Linux kernel version: 5.4.61 Cross-compilation tool-chain version: gcc-linaro-5.3.1 QT version: QT5.12.5

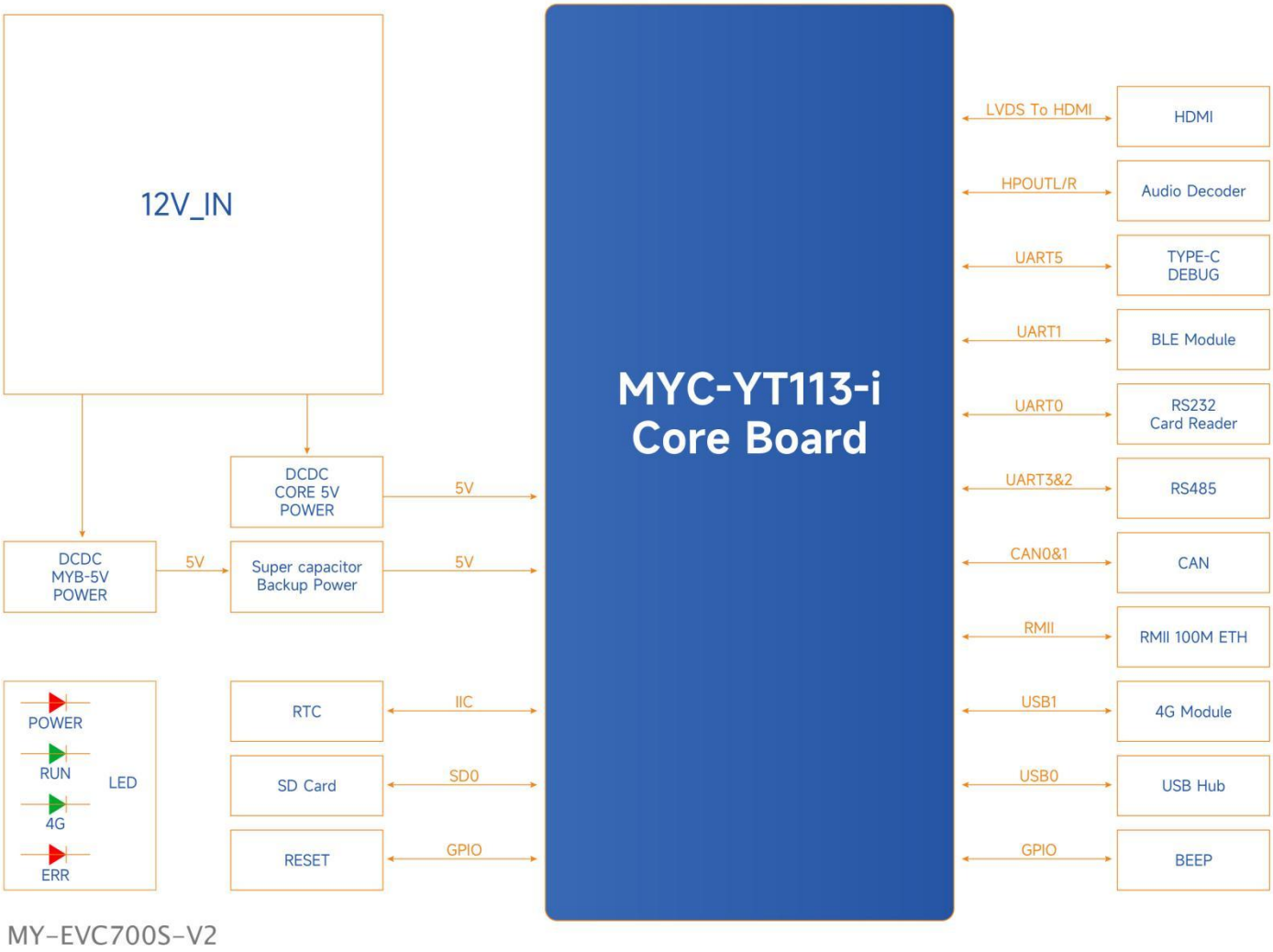
Table 1-1 Features of MY-EVC700S-V2



MY-EVC700S-V2 Interface Diagram



MY-EVC700S-V2 Dimensions



MY-EVC700S-V2 Function Block Diagram

Software Features

The MY-EVC700S-V2 offers supports for Linux operating systems and is equipped with comprehensive software packages. To assist clients in speeding up their projects, the kernel and numerous peripheral drivers are provided in source code format. Below is a brief overview of the key software feature:

Item	Feature	Description	Source Code
Bootloader	U-boot	Boot boot program uboot_2018.05	YES
Linux kernel	Linux kernel	Customized base on official kernel_5.4.61 version	YES
Drivers	USB Host	USB Host driver	YES
	USB OTG	USB OTG driver	YES
	I2C	I2C bus driver	YES
	SPI	SPI bus driver	YES
	Ethernet	YT8531SH driver	YES
	SDHI	EMMC/SD card storage driver	YES
	LVDS	LCD driver	YES
	Touch	Touch screen driver	YES
	Audio	SPDIF driver	YES
	Watchdog	Watchdog driver	YES
	4G/5G	4G/5G driver	YES
	PWM	PWM control driver	YES
	ADC	ADC driver	YES
	RTC	RTC driver	YES
	GPIO	Universal GPIO driver	YES
	UART	RS232/RS485/TTL driver	YES
	CAN	CAN driver	YES
	WIFI	RTL8731BU driver	YES
Images	t113i_linux_myir_emmc_core	Image built with Buildroot, excluding GUI interface	YES
	t113i_linux_myir_emmc_full	A fully functional image built with Buildroot	YES

MY-EVC700S-V2 Software Features

Order Information

Item	Part No.	Packing List
MY-EVC700S-V2 IPC Box	MY-EVC700S-V2	✓ One MY-EVC700S-V2 IPC Box ✓ One Quick Start Guide

Note:

1. The HDMI is reserved function, which can be customized, please inquire MYIR for details.

2. Bulk discounts are available.

3. We cater to custom design requests based on the MY-EVC700S-V2, whether it involves reducing, adding or modifying the existing hardware components to suit the customers' specific needs.

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