

GW01 Specification

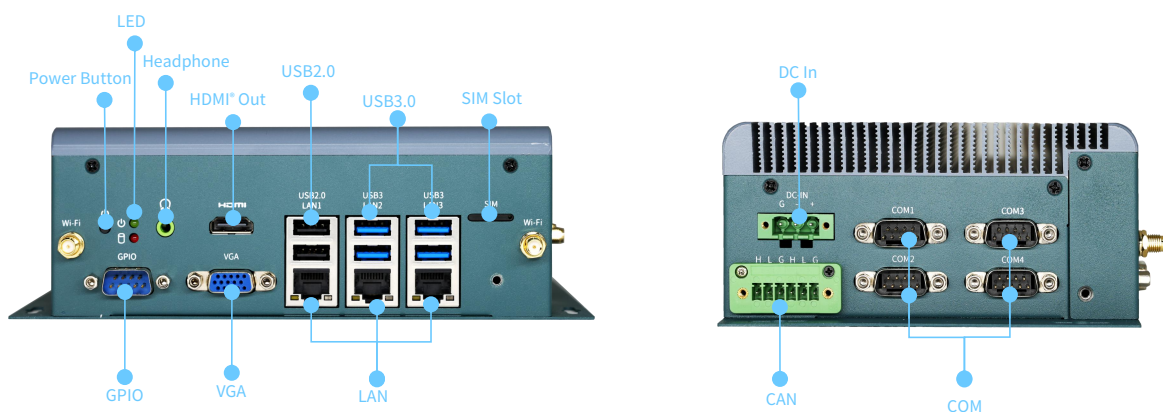


Overview

Decenta GW01 adopts mature ARM architecture with features of data collection, edge computing and information management. Widely used in intelligent manufacturing, intelligent agriculture, environmental testing, self-service terminals, energy management, logistics transportation and other scenarios.

- Support Rockchip RK3568, 4 cores A55@2GHz.
- Onboard LPDDR4X, supports up to 8G.
- eMMC storage up to 128GB, support TF and mSATA storage.
- Support 4G/5G and WI-FI wireless communication.
- Rich interfaces with superb data collection capabilities.
- Strong performance enable fast response to field devices and realize edge computing.
- Fanless cooling and wide temperature design are suitable for harsh industrial environments.
- Supports multiple operating systems, providing a stable and fast platform for secondary application development.

I/O Overview



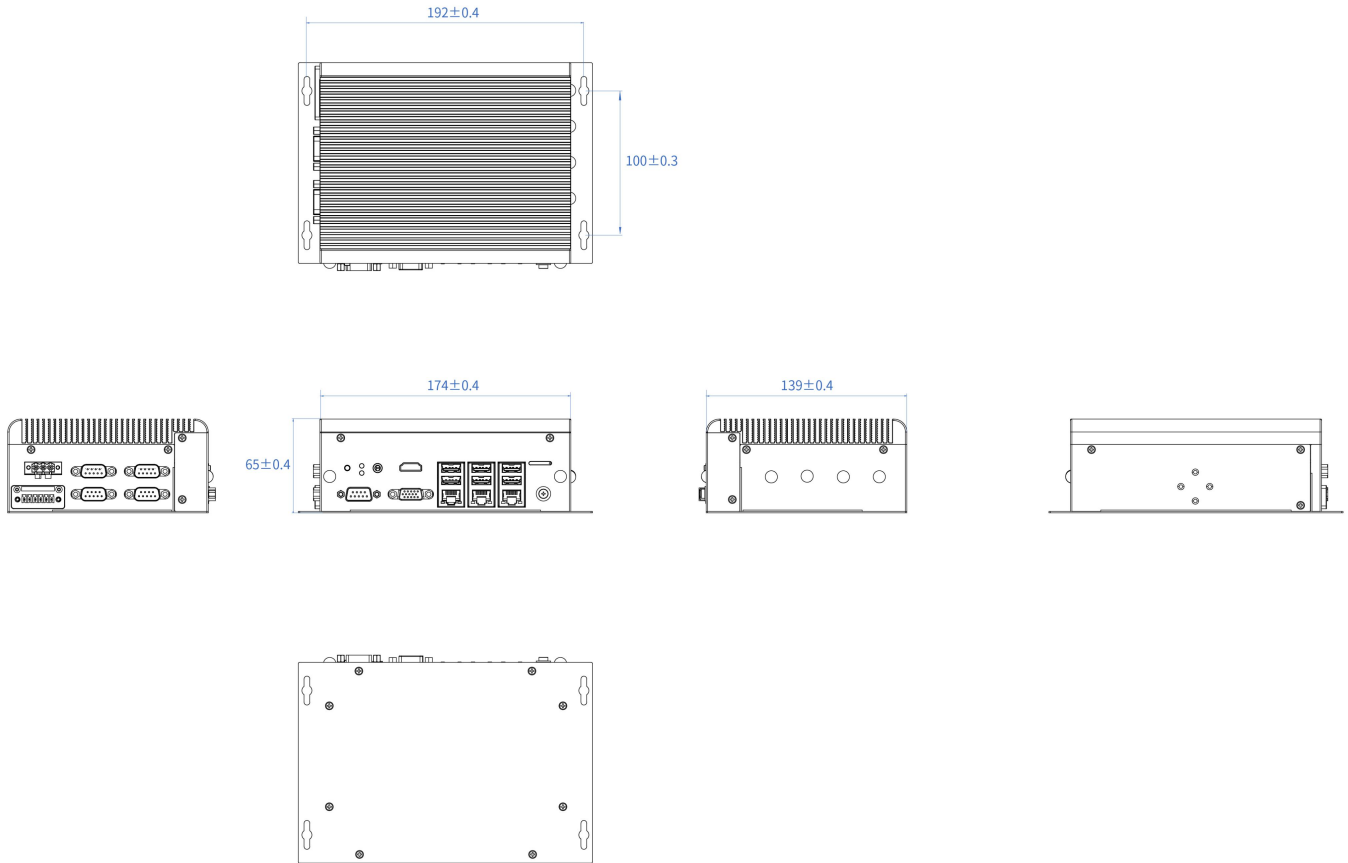
Specifications

Model		S23-RK3568-GW01	
Processor		Rockchip RK3568,4 cores A55@2GHz	
Memory	Type	On board LPDDR4/LPDDR4X	
	Capacity	Max.8GB	
Graphic	Controller	Mali-G52	
	Connector	HDMI* & VGA	
Network	Ethernet	Controller	2*Realtek RTL8211F + RTL8111H
		Connector	3x 1Gbe RJ45
	Wi-Fi	On board WIFI6 or WIFI5, BOM option	
	4G/5G	1x SIM Slot	
Storage	eMMC	1, Max. 256GB	
	TF	1	
	mSATA	1	
Audio	Controller	RK809-5	
Expansion	M.2	1x M.2 B-key for 4G&5G module, Support USB2.0 & PCIe x1 Signal	
I/O	Front	LAN	3
		USB 3.0	4
		VGA	1
		HDMI* Out	1,With resolution of 4K@60Hz
		Headphone	1
		LED	2 (Power_LED_Green; Power on: Solid Green, Power off: Off HA_LED_Red; Customized)
		SIM Slot	1
		GPIO	1x DB9 Port, Support 8bit in / 8bit out
		Power Button	1
		Debug	1x USB port (U2)
	OTG	1x USB port (U2)	
	Side	CAN	2x COM Port
		DC In	1x 3Pin Phoenix terminal
		COM	4x DB9(RS232/RS485/RS422)
Antenna		Max. 6*	
Environment	Temperature	Operating	0°C~60°C, With 0.7m/s air flow
		Storage	-40°C~80°C
	Humidity	Operating	5%~95% RH non-condensing
		Storage	5%~95% RH non-condensing
Feature	WatchDog	255 levels timer interval, setup by software	
Systems	Cooling System	Passive	
	Operating System	Android/Linux	
Dimensions		192mm x 100mm x 65mm** /174mm x 139mm x 65mm	
Material		Metal	
Power		DC 12V	
Remark		* Depend on the network modules ** 192mm length with fixing holes on chassis	

Optional Accessories

Module	Model Name	Wi-Fi Ver.	Bluetooth Ver.	Host Interface
WIFI Module	AP6275S	Wi-Fi 6	BT 5.0	SDIO
	AP6398S	Wi-Fi 5	BT 5.0	SDIO

Dimensions (Unit: mm)



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