

# QC01W - Series

**Tiny Edge AI Box**  
**Qualcomm® QCS6490 SoC**  
**Up to 12 TOPS**



## Features

- ◆ Qualcomm® QCS 6490 SoC; CPU up to 2.7 Ghz
- ◆ Accelerated AI up to 12 TOPS
- ◆ Fanless (without cooling fins) and tiny size design
- ◆ Wide operation temperature
- ◆ Long life cycle

## Introduction

The QC01W harnesses the power of Qualcomm's latest QCS6490 SoC, offering superior computing performance and enhanced AI capabilities. This makes the QC01W a highly effective Edge AI device, ideal for a variety of AI-driven applications.

Its compact size and extensive operating temperature range facilitate easy installation in restricted spaces and demanding environments. As a result, the QC01W stands out as an excellent choice for applications in fleet management, smart security, and smart retail.

## Specifications

SKU	Standard SKU	DI/DO SKU	Wi-Fi SKU
CPU	Qualcomm® QCS6490 Octa-Core Kryo 670 CPU		
GPU	Qualcomm® Adreno™ 643		
AI Performance	up to 12 TOPS		
SOM	AIMobile AIM6490R		
Storage	128GB UFS Flash (uMCP)		
Memory	8GB LPDDR4 RAM (uMCP)		
Ethernet	2 x Gigabit Ethernet (RJ45)		
Connectivity	N/A	N/A	WiFi 802.11 ax Bluetooth 5.2
I/O	4 x USB3.0 Type A (5Gb/Single) 1 x RJ45 Lan A (2.5GbE/Single) 1 x RJ45 Lan B (10GbE/Single) } 16Gb Maximum 1 x HDMI (Type A) / 1 x USB 3.0 Type C / 1 x CAN (Internal)		
DI/DO	N/A	4DI/4DO	2DI/2DO
Button/Key	1 x Reset button 1 x Power button	1 x Function button 1 x Recovery button	
Temperature	Operation : -20~60 °C (TBD)		
Dimension	130(W) x 95(D) x 37(H) mm		
Weight	500g	507g	520g
Operation System	Linux Ubuntu / Android 13 / Windows IOT Enterprise		
Power	1 x DC-In 19V adaptor		