



# TURBO X

## CM450/C450 SOM

[Dash Camera](#)
[Digital Signage](#)
[Translator](#)

[Vending Machine](#)

Cost-effective compute module gives broad access to networks in all regions of the world.

The CM450 SOM (System On Module) is designed based on the Qualcomm 450 mobile platform. It brings high-value features to mid-tier devices, designed to support all-day battery life, fast LTE connectivity, enhanced camera, advanced graphics, and more. The ultra-compact form factor of the module can be fit into any mobile device such as translator, handheld pos and tablet. It is ideal platform for OEMs to rapidly develop cost-effective cellular devices to the market.

## Overview

### CM450/C450 SOM Applications



Translator



Dash Camera



POS



Digital Signage



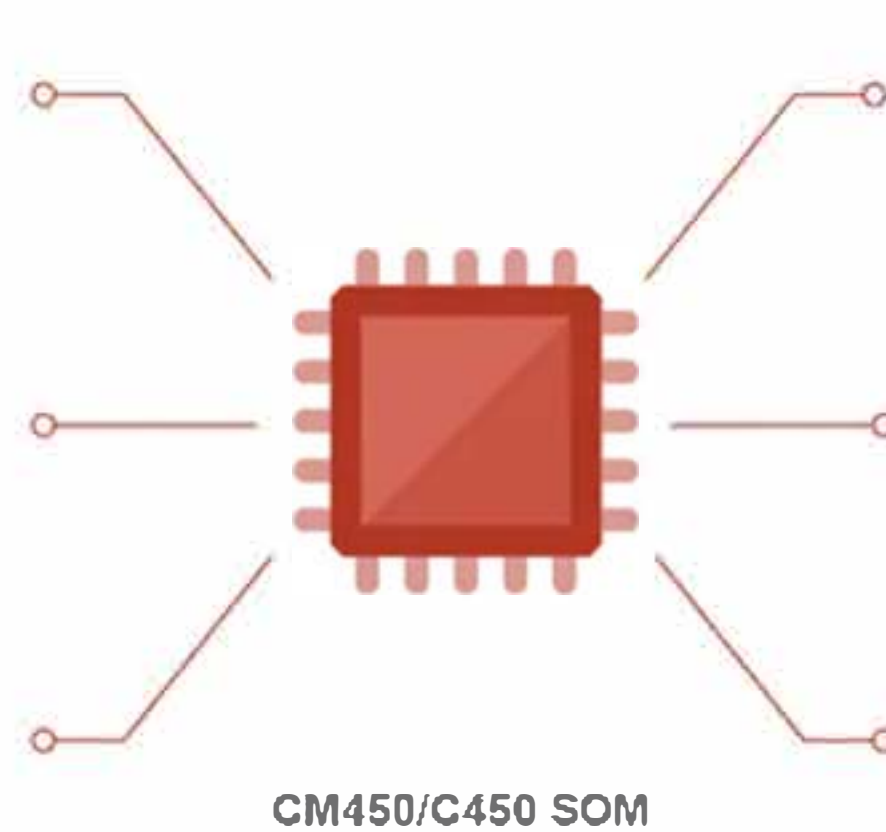
Vending Machine

### CM450/C450 SOM Features

**Mic Array:**  
4 or 3 far field and noise cancellation

**Video:**  
4K@30 fps Encode & Decode, WDR

**Low Power Sensor Core:**  
Support new always-on use cases at reduced power levels and cost



**Global multibands:**  
Support DL 2X20MHz CA, DL MIMO 2x2

**Quick Charge 3.0 technology**

**Dual image signal processors (ISPs)**  
support superior mobile camera experiences

CM450/C450 SOM

## Specifications

Category	Description
Platform	Snapdragon™ SDM 450, Octa-Core, 64-bit, 1.8GHz Qualcomm® Adreno™ 506 GPU Qualcomm® Hexagon™ QDSPv56
Memory	LPDDR3 2GB+eMMC 16GB / LPDDR3 3GB+32GB
WWAN	Global bands supported: LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B17, B18, B19, B20, B26, B28 LTE TDD: B38, B39, B40, B41, B71 WCDMA: B1, B2, B3, B4, B5, B6, B8, B19 CDMA: BC0 GSM: 850/900/1800/1900MHz Cat 6 Modem with 2x20MHz CA, DL MIMO 2x2:
Connectivity	WiFi 802.11 ac/a/b/g/n
Encode	1080P@60fps (H.264/H.265/VP8)
Decode	1080P@60fps (H.264/H.265/VP8/VP9)
Display Interfaces	2x MIPI-DSI 4-lane ; FHD(1920*1200)@60fps
Camera Interfaces	3x MIPI-CSI, 4-lane, 2.1 Gbps per lane; supports CMOS and CCD sensors Up to 24 MP sensors
Other Interfaces	1 x Slimbus; 1 x USB 3.0; 1 x SDIO; 2 x I2S; 8 x BLSP; GPIOs
Operating Environment	Operation Temperature: -25°C ~ +75°C Operation Humidity: 5%~95%, non-condensing
Voltage	3.8V ~ 4.2V
Dimension	LGA: 35 x 51 x 2.3mm (Modem version) LGA: 35 x 34 x 2.3mm (Wifi only)
OS Support	Android 10

## RELATED PRODUCTS



CM450/C450/CM625/C626 Development Kit

[Dash Camera](#)
[Digital Signage](#)
[POS](#)

[Translator](#)
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CM625/C626 SOM

[Dash Camera](#)
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