



OE100Q High Performance Android Edge AI System

Powered by Qualcomm® Snapdragon™ Mobile Platform

Benefit of OE100Q

- ◆ Utilize existing OEM screen integration with Android Auto capable vehicles
- ◆ Install any apps legally from Google Play
- ◆ Allow third party applications
- ◆ Dedicated USB hub to support cameras

Features Set of OE100Q

- ◆ Display capable and controllable for any Android Auto capable device (IE, OEM or aftermarket screen or generic HDMI screen)
- ◆ Wide operating voltage range from 8 to 36V, very low standby current
- ◆ Bluetooth connections
- ◆ Built in microphone for voice commands and recording
- ◆ Supports multiusers WIFI 2.4/5.8GHz hot spot and LTE 4G access point
- ◆ 2 USB connection ports
- ◆ Configurable I/O
- ◆ UVC cameras supported (AHD optional)
- ◆ 3-axial accelerometer and gyroscope built-in
- ◆ Supports 1-wire temperature sensor for telematics applications

The OE100Q is a small, low-power edge computing device designed for easy deployment, on-site or on-the-move. Powered by Qualcomm Snapdragon Mobile Platform, the OE100Q combines cutting-edge compute, graphics, and AI processing performance with excellent image quality support, rich connectivity options, and flexible camera and I/O peripheral integration capabilities in an-ultra compact fanless form factor. It also provides real-time, secure and automated computer vision AI monitoring and intelligent analytics for a variety of commercial, industrial and security applications.

In addition to the powerful AI features, the OE100Q can be connected to the car's monitor via a USB interface to allow users to experience the entertainment and convenience brought by Android Auto. Furthermore, it supports auto-switch between in-car Android Auto and mobile phone Android Auto through USB interface.

The OE100Q has multiple sockets that support a wide range of external devices for more communication extensions in a variety of applications, including car safety and security features or video tracking.

The OE100Q is designed with metal enclosure which is much stronger and robust than plastic enclosure in fleet management and telematics applications, and it can be installed anywhere in the trucks or buses.



OE100Q Hardware Specifications

Platform	Android 9.0 with GMS	Qualcomm AI Engine	Includes a Hexagon Vector Processor, Adreno GPU, and Kryo CPU, plus software features
CPU	CPU Clock Speed: from 1.95GHz to 2.2GHz CPU Cores: 8x Qualcomm® Kryo™ 260 CPU CPU Bit Architecture: 64-bit/8cores	Enhanced Graphics and 3D Gaming	Adreno 512 GPU supports lifelike visuals and more efficient rendering of advanced 3D graphics
Memory	32GB eMMC + 3GB LPDDR4X (default) NOTE 1	DSP Technology	Qualcomm® Hexagon™ 680 DSP Qualcomm® Hexagon™ Vector eXtensions (HVX) Qualcomm All-Ways Aware™ technology
Antenna	Rx-diversity, DL MIMO 2 × 2	Video/Audio	Video Capture: Up to 4K Ultra HD video capture @ 30fps, up to 1080p video capture @120fps Video Playback: Up to 4K Ultra HD video playback Codec Support: H.265 (HEVC), H.264 (AVC), VP8, VP9
SD/USB SSD	Support Max. 2TB NOTE 4	Backup Battery	Yes
SIM	Micro SIM and eSIM (optional) supported	GPIO	Input x2, output x2
USB Display	From USB Type C (external HDMI convert) for testing	ADC	x2
USB Port	USB OTG (In/Out switch) USB HOST 2 ports (default) Support up to 4 ports (optional)	Faster Connection Speeds	With LTE and Wi-Fi downlink speeds up to 2X faster, the Snapdragon X12 modem can download files quickly
WIFI	2.4G/5G, 802.11 a/b/g/n/ac	Microphone In	Yes
Bluetooth	BT2.1 + EDR/3.0/4.1 LE/4.2 BLE/5.0	Operating Temperature	-30°C ~ +75°C
GNSS	GPS/GLONASS/BEIDOU	Dimensions	175.8 x 89.8 x 26 (L x W x H) mm
GPU	Qualcomm® Adreno™ 512 GPU	Weight	448g
LTE FDD/TDD Optional A	Cat 6 Modem with Carrier Aggregation LTE FDD: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/ B66/B71 LTE TDD: B41 WCDMA: B2/B4/B5 NOTE 2	Packing List	
LTE FDD/TDD Optional CE/E	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28(A+B) LTE TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM: 850/900/1800/1900MHz NOTE 3	OE100Q Edge AI Box	
		Main power harness	
		4G LTE antenna	
		GNSS antenna	
		2-port USB cable	
		Accessories (optional)	
		UVC camera: front and rear (for DMS)	
		Microphone	
		Speaker	
		1-wire temperature sensor	
		Push Button	

NOTE 1: 64GB eMMC + 4GB LPDDR4X (Optional)

NOTE 2: For North America

NOTE 3: CE: for China or India



NOTE 4: SD and USB SSD support FAT/exFAT/NTFS/EXT4

www.carnetek.com.tw sales@carnetek.com.tw