

# VP070-M8M

NXP i.MX 8M Dual/Quad Cortex  
ARM-Based In-vehicle Touch Panel PC

## KEY FEATURES



### ARM-Based System

Support Android 9.0 and Linux



### IP Rating

IP65 Front Panel Protection



### Rich I/O Connectivity

1 GbE, 2 COM, 1 CAN Bus, 2 USB 3.1 Gen1



### Application Focus

In-vehicle Driver HMI

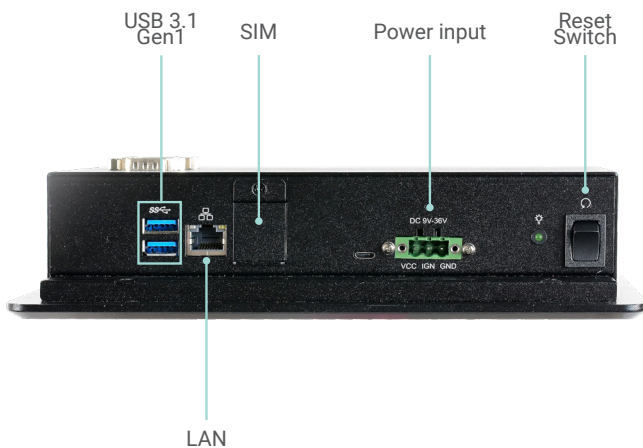


### Smart Power Ignition Control

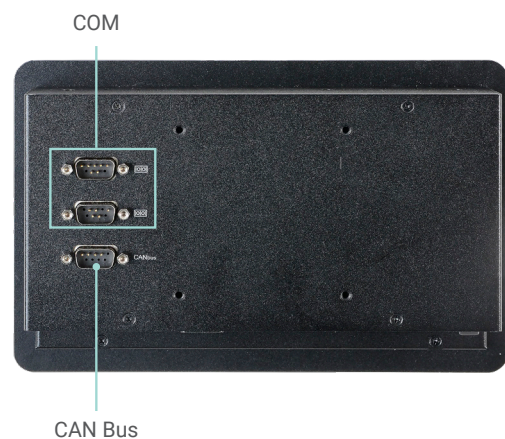
Power delay and protection time setting



## PANEL

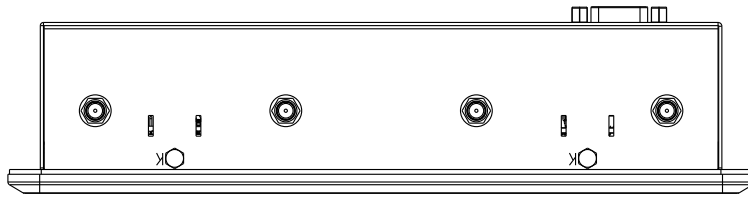


Bottom View

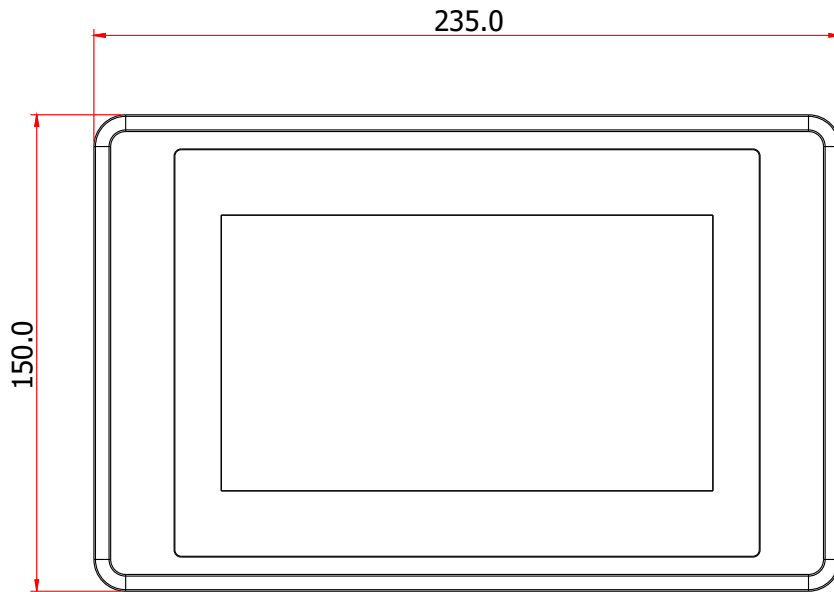


Back View

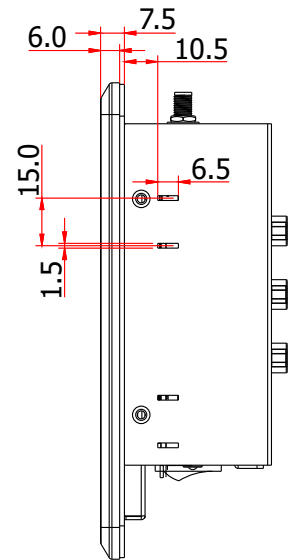
# DIMENSIONS



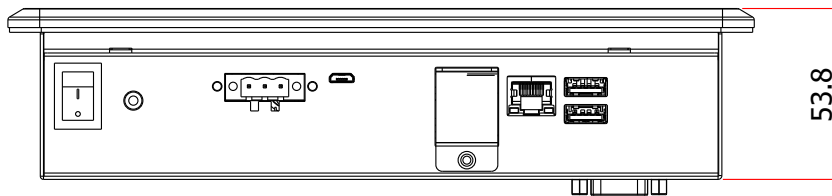
Top View



Front View



Side View



Bottom View

## SPECIFICATION

SYSTEM	Processor	NXP i.MX 8M Dual/Quad Cortex-A53
	Max. Speed	1.3GHz
MEMORY	Technology	On board Memory 2GB/4GB (Default 2GB) Single Channel LPDDR4 up to 3200 MHz
	Display Type	7" PCAP TFT
DISPLAY & TOUCH SCREEN	Max. Resolution	1024 x 600
	Brightness	425 cd/m <sup>2</sup>
STORAGE	Internal	Support eMMC 5.1 16GB on board (default) Support up to 64GB (optional)
EXPANSION	Interface	1 x M.2 2242/3042 B Key (USB3.1 Gen1), Nano SIM Slot support 1 x M.2 2230 E Key (PCIe x1/USB2.0)
AUDIO	Audio Codec	SGTL5000
ETHERNET	Controller	AR8035
SENSOR	Sensor	6 axis IMU (3 Accelerometer + 3 Gyroscope)
LED	Indicators	Power
I/O	Ethernet	1 x GbE
	Serial	1 x RS-232/422/485 1 x RS-232 1 x CAN Bus
	USB	2 x USB 3.1 Gen1 1 x OTG, micro USB
	Audio	with Amplifier to support 2W speaker (optional) 1 x Line out, 1 x MIC in (internal header)
	Buttons	1 x Reset switch
POWER	Type	9~36V DC Power input, with ACC/IGN control
OS SUPPORT	Linux	Yocto 2.5 (optional)
	Android	Android 9.0 (default)
MECHANISM	Construction	Aluminum + SGCC
	IP Rating	IP65 Front Panel Protection
	Mounting	Panel Mount /VESA Mount
	Dimensions (W x H x D)	235 x 150 x 54mm
	Weight	2.9kg
ENVIRONMENT	Operating Temp.	-20 to 70°C
	Storage Temp.	-30 to 80°C
	Relative Humidity	10 to 90% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock	OP: Half-sine, 3G @ 11ms Non-OP: Half-sine, 5G @ 11ms
	Vibration	OP: Random, 1Grms @ 5~500Hz, 30min Non-OP: Sweep sine, 3Grms @ 10~500Hz, 30min
	Certifications	CE, FCC, E-Mark R10, RoHS, UKCA

## ORDERING INFORMATION

Model Name	Part Number	Description
VP070-M8M	750-VP07000-000G	VP070-M8M: VP070P-M8M-D, Fan-less 7" Panel PC;NXP i.MX 8M Dual;2GB DDR4;eMMC 16GB; PCT, 9V~36V with ACC/Ignition, F/G SYSTEM RoHS
VP070-M8M	750-VP07000-100G	VP070-M8M: VP070P-M8M-Q, Fan-less 7" Panel PC;NXP i.MX 8M Quad;4GB DDR4;eMMC 16GB; PCT, 9V~36V with ACC/Ignition, F/G SYSTEM RoHS

## OPTIONAL ITEMS

Optional Items	Part Number	Description
LTE 4G	761-0EM06E-000G	4G Module Kit, Quectel LTE-A Cat 6 M.2 Module, EM06-E
WiFi + BT	761-ES2200-100G	Wi-Fi Kit WiFi+BT Kit, WiFi+BT Module, W/2 Dipole Antenna, 2 MHF4 Cable/200mm, RTL8822CE(ENLI) RoHS

## PACKING LIST

• 1 VP070-M8M System Unit
• 1 Switch Cable
• 12 Rubber Holders
• 1 ADDM UL Battery Addendum