

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

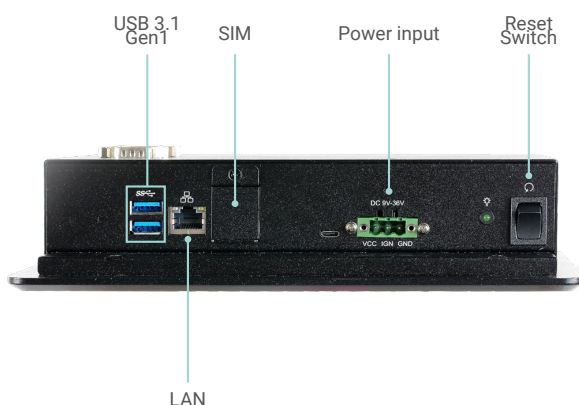


Smart Power Ignition Control

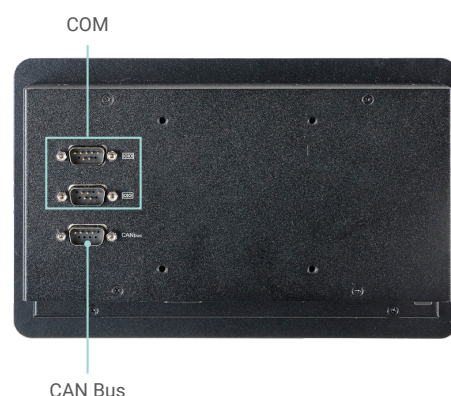
Power delay and protection time setting



PANEL

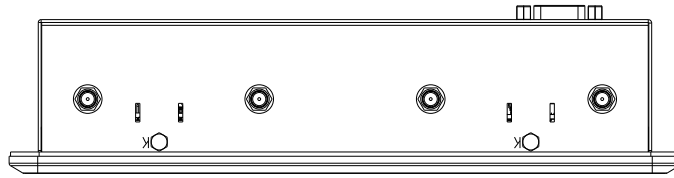


Bottom View

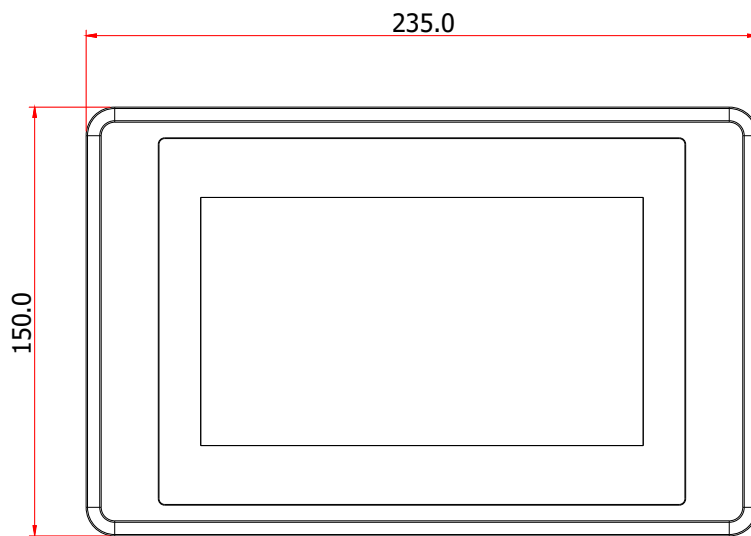


Back View

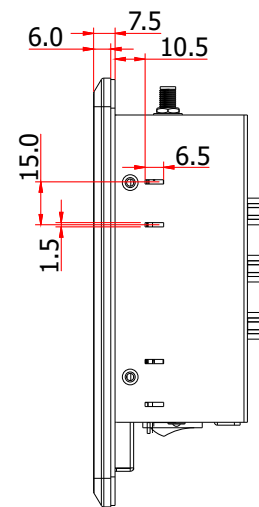
DIMENSIONS



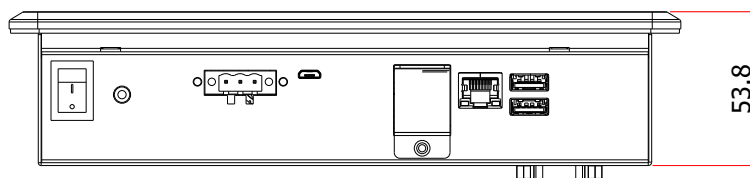
Top View



Front View



Side View



BottomView

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 ²
STORAGE	Internal	Support eMMC 5.1 16GB on board (default) Support up to 64GB (optional)
	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)
EXPANSION	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 (E24), 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

Assured Systems

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