

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

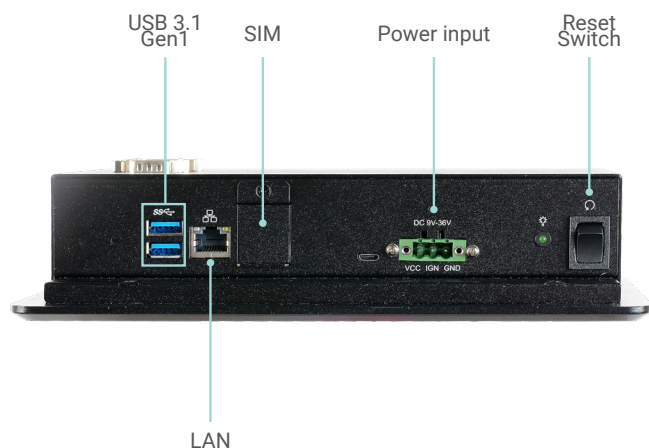


Smart Power Ignition Control

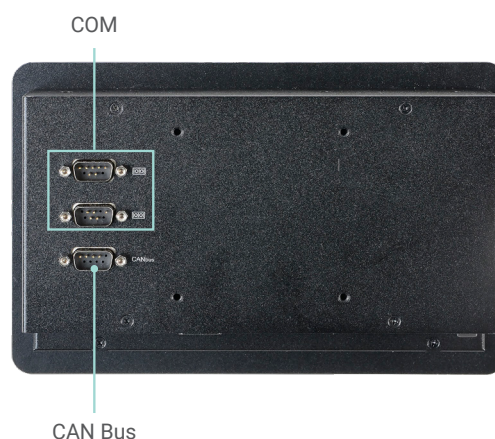
Power delay and protection time setting



PANEL

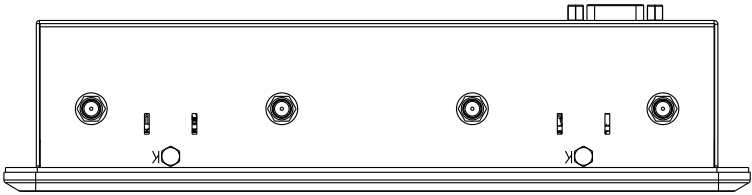


Bottom View

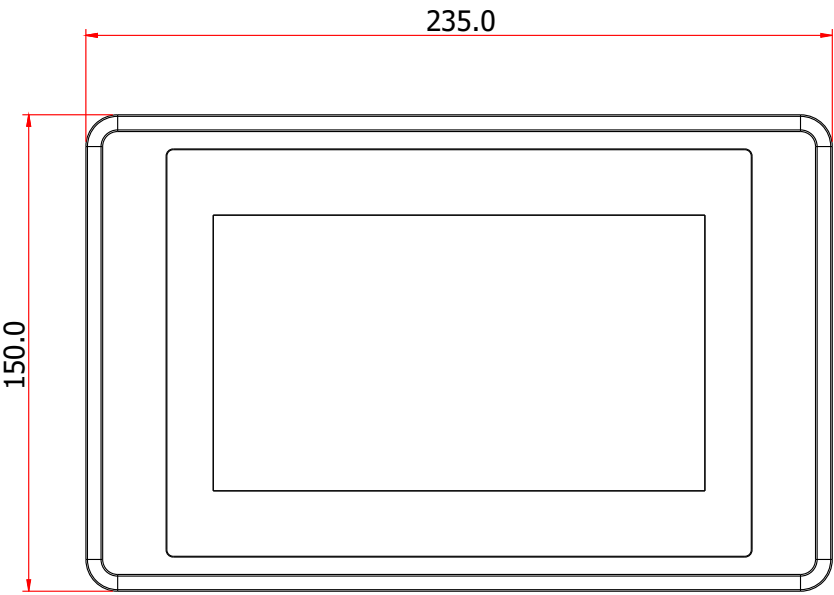


Back View

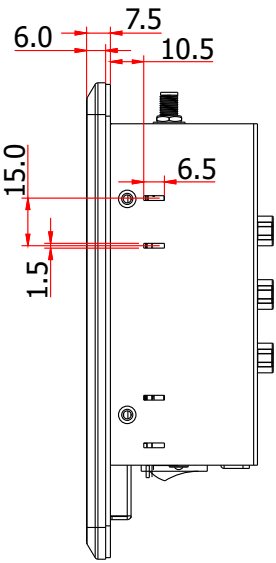
DIMENSIONS



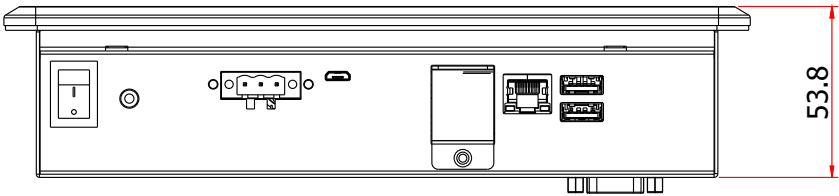
Top View



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 & TOUCH SCREEN	Display Type	7" PCAP TFT
	Max. Resolution	1024 x 600
	Brightness	425 cd/m²
STORAGE	Internal	Support eMMC 5.1 16GB on board (default) Support up to 64GB (optional)
	External	Micro SD card slot
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 (E24), RoHS, UKCA

ORDERING INFORMATION

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

OPTIONAL ITEMS

Optional Items	Part Number	Description
LTE 4G	761-EM06KE-000G	4G Module Kit, W/Antenna*3, SMA Cable*3, Quectel LTE-A Cat 6 M.2 Module, 42x30x2.3mm, EM06K-EA(QUECTEL) RoHS
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
Power Switch Cable	A81-006065-016G	Power SWITCH CABLE, Terminal Block 1*3P/5.0mm to DC Jack, L=100mm with ignition switch button
Power Adapter	671-106012-000G	POWER ADAPTER, 60W, EA10681N-120, Input: 100~240V, Output: 12V/5A, 113x49x35mm, L=1500mm, DC PLUG 5.5*2.5*10mm(Lockable), LV6, 62368-1, EA10681N(183)(EDAC)RoHS
Mounting	761-KS2020-000G	Panel Mount Kit
	761-TPC000-000G	Wall Mount Kit

PACKING LIST

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