

VP101-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, 4 COM, 1 CAN Bus, 2 USB 3.1 Gen1



Superior Viewing Ability

High Brightness 1200 cd/m²

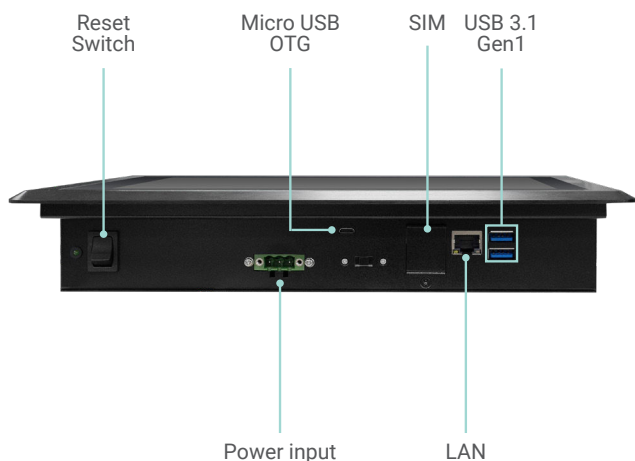


Smart Power Ignition Control

Power delay and protection time setting



PANEL

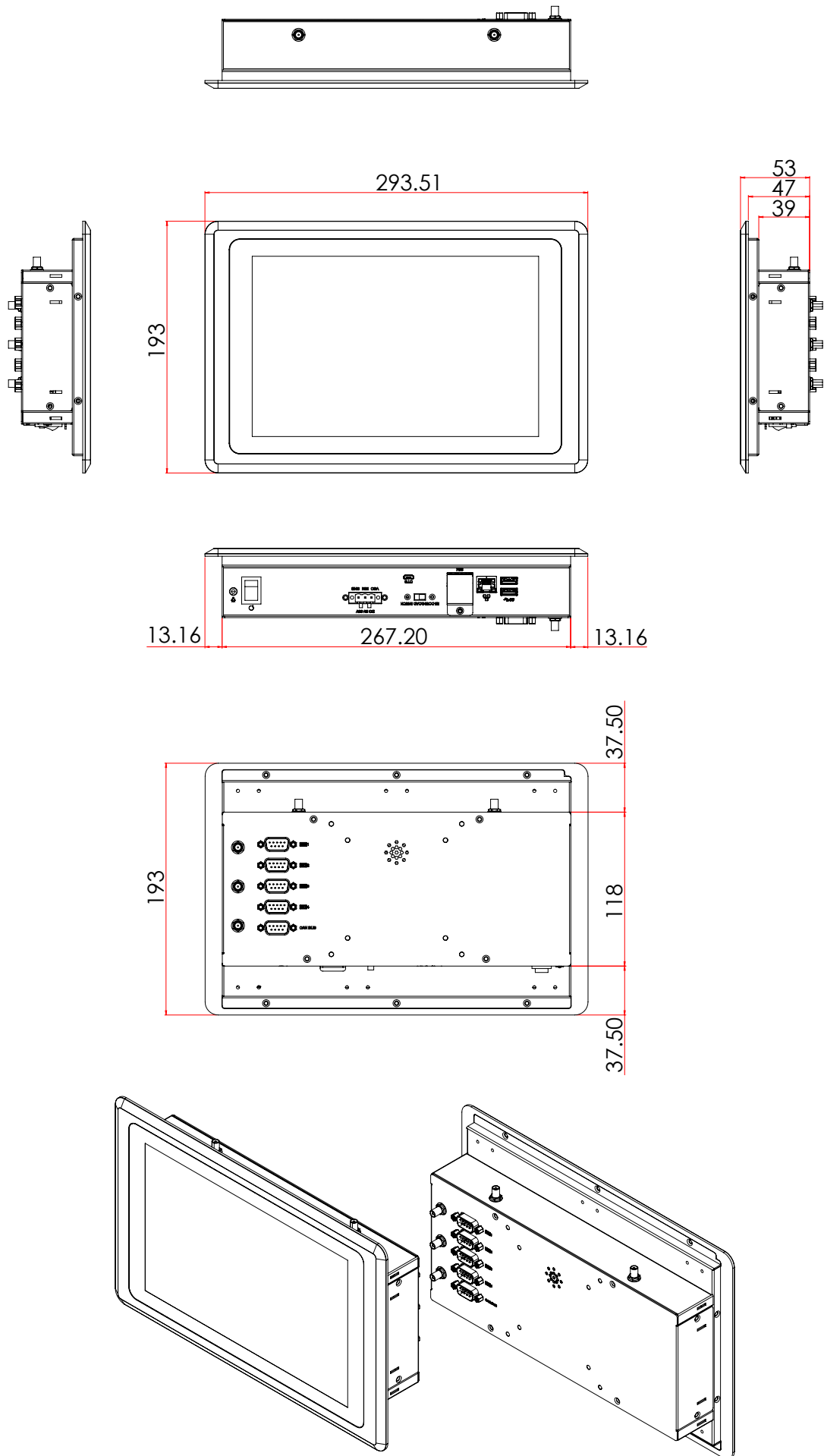


Bottom View



Back View

DIMENSIONS



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	10.1" PCAP TFT
	Max. Resolution	1280 x 800
	Brightness	1200 cd/m ² 500 cd/m ²
STORAGE	Internal	Support eMMC 5.1 16GB on board (default) Support up to 64GB (optional)
	External	Micro SD card slot
EXPANSION	Interface	1 M.2 2242/3042 B Key (USB3.1 Gen1), Nano SIM Slot support 1 M.2 2230 E Key (PCIe x1/USB2.0)
AUDIO	Audio Codec	SGTL5000
	Speaker	3W x 1
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 (COM4) 1 x RS-232(TX,RX,RTS,CTS) (COM2) 2 x RS-232(TX,RX) (COM1/COM3) 1 x CAN Bus, DB-9
	USB	2 x USB 3.1 Gen1 1 x OTG, micro USB
	Buttons	1 x Reset switch, 1 re-download switch
	Type	9~36V DC Power input, with ACC/IGN control
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)	294 x 193 x 53 mm
	Weight	1.67kg
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 (ongoing)

ORDERING INFORMATION

Model Name	Part Number	Description	Processor	Memory	Storage	Display	Power
VP101-M8M	750-VP1011-000G	VP101P-M8M-D	NXP i.MX 8M Dual	2GB DDR4	eMMC 16GB	Fan-less 10.1" Panel PC; 500nits; PCT	9V~36V with ACC/Ignition
	750-VP1011-100G	VP101P-M8M-Q	NXP i.MX 8M Quad	4GB DDR4		Fan-less 10.1" Panel PC; 500nits; PCT	
	750-VP1011-200G	VP101P-M8M-D	NXP i.MX 8M Dual	2GB DDR4		Fan-less 10.1" Panel PC; 1200nits; PCT	
	750-VP1011-300G	VP101P-M8M-Q	NXP i.MX 8M Quad	4GB DDR4		Fan-less 10.1" Panel PC; 1200nits; PCT	

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	A31-038052-000G	PANEL HOLDER BRACKET, SGCC T=1.0mm
	761-TPC000-000G	Wall Mount Kit

PACKING LIST

• 1 VP101-M8M System Unit
• 1 ADDM UL Battery Addendum