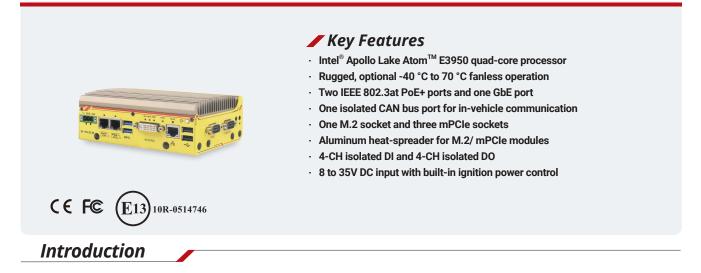
POC-351VTC Series

Intel® Apollo Lake Atom™ E3950 Ultra-compact In-vehicle Controller with GbE, PoE+ and Isolated CAN bus



POC-351VTC is an ultra-compact, fanless in-vehicle controller powered by Intel[®] Apollo Lake Atom™ E3950 quad-core processor. It combines finesse performance, extraordinary reliability and affordability for versatile in-vehicle applications.

POC-351VTC offers two PoE+ ports to power devices such as IP cameras, and one additional GbE port for data communication. It also features isolated CAN bus 2.0 port and RS-232/ 422/ 485 ports for communicating with other automotive devices. Wide-range DC input and ignition power control make POC-351VTC fit for various vehicle types.

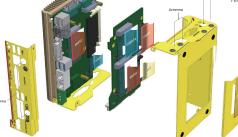
Wireless and internet access is essential for modern day in-vehicle applications and POC-351VTC has a total of four M.2/ mPCle sockets and six antenna holes to accommodate a variety of 4G, 3G, WIFI and GPS modules. An aluminum heat-spreader is thoughtfully designed to dissipate the heat generated by modules to maintain superior operating stability, for the system and communication modules.

Specifications

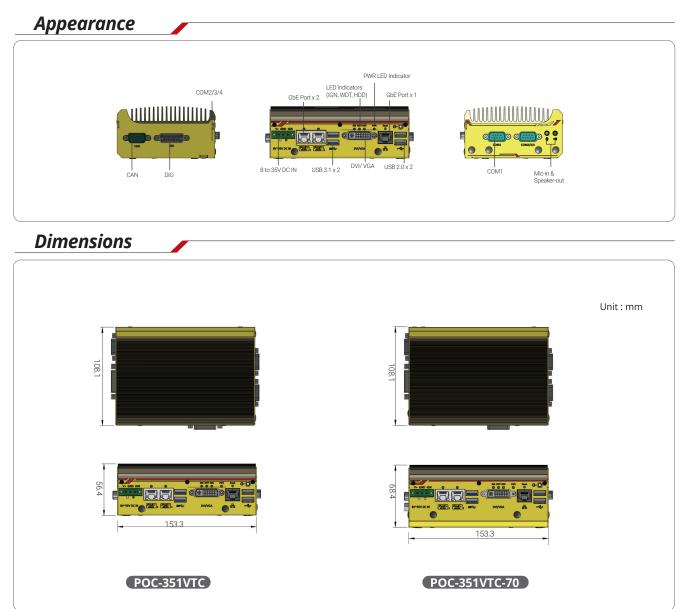
System Core		Power Supply	
Processor	Intel [®] Atom™ E3950 1.6/ 2.0 GHz quad-core processor	DC Input	1x 3-pin pluggable terminal block for 8V to 35V DC input with built-in ignition power control (IGN/GND/V+)
Graphics	Integrated Intel [®] HD graphics 505		
Memory	Up to 8GB DDR3L-1866 (single SODIMM slot)	Input Connector	3-pin pluggable terminal block for DC input (IGN/ GND/ V+)
Panel I/O Inte	erface	Mechanical	
Ethernet	3x Gigabit Ethernet ports by Intel [®] I210 GbE controller	Dimension	153 mm (W) x 108 mm (D) x 56 mm (H) (POC-351VTC) 153 mm (W) x 108 mm (D) x 68 mm (H) (POC-351VTC-70)
PoE	IEEE 802.3at PoE+ on port #2 and #3		1.0 kg (POC-351VTC) 1.1 kg (POC-351VTC-70)
Video Port	VGA and DVI dual display outputs via DVI-I	- Weight	
USB 3.1	2x USB 3.1 ports	Mounting	Horizontal Wall-mount (standard) or vertical Wall-mount (optional)
JSB 2.0	2x USB 2.0 ports		
Serial Port	 1x software-programmable RS-232/ 422/ 485 ports (COM1) 3x 3-wire RS-232 ports (COM2/ COM3/ COM4) or 1x RS-422/485 port (COM2) 	Environmental	
		Operating Temperature	-25°C ~ 70°C */** -40°C ~ 70°C (optional) */***
Audio	1x mic-in and 1x speaker-out	Storage	-40°C ~85°C**
CAN bus	1x isolated CAN 2.0 port	Temperature	
solated DIO	4x isolated DI and 4x isolated DO	Humidity	10%~90% , non-condensing
Internal I/O Interface		Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ mSATA, according to IEC60068-2-64)
M.2	1x M.2 B key socket for 3G/ 4G option with USIM support	– Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ mSATA, according to IEC60068-2-27)
Mini-PCle	3x full-size mini PCI Express sockets with USIM support		
Storage Interface		EMC	E-Mark for in-vehicle applications CE/ FCC Class A, according to EN 55032 & EN 55024
mSATA	1x half-size mSATA port 1x full-size mSATA port		ise condition, a wide temperature/industrial mSATA module is required. condition (mini-PCle, M.2, and mSATA are all adopted), the recommended opera

** For full function use condition (mini-PCle, M.2, and mSATA are all adopted), the recommended operating temperature is -25°C ~ 60°C *** For extreme wide temperature -40°C ~ 70°C, it is optional with 100% screening, please contact Neousys

*** For extreme wide temperature -40°C ~ 70°C, it is optional with 100% screening, please contact Neousys Technology



mPCI x3 mSATA x2 M.2 x1 Antenna x6 Passive heat spreader for M.2 and mPCle modules



Ordering Information

Model No.	Product Description	
POC-351VTC	Intel [®] Apollo Lake Atom™ E3950 ultra-compact in-vehicle controller with 1x GbE, 2x PoE+ and isolated CAN	
POC-351VTC-70	Intel [®] Apollo Lake Atom™ E3950 ultra-compact in-vehicle controller supporting optional LTE socket modem	

Optional Accessories

Wmkit-V-POC300	Wall-mount assembly for POC-351VTC, vertical type
PA-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. operating temperature : -30 to 60 °C.

Optional Cellular Module

NSIO-LTE-7455 Cat. 6 LTE embedded socket modem