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THE ITX9000 VIPER QUICK START GUIDE

Produced by Elios Technologies

Offices in the United States and Australia

www.eliostechnologies.com

Guide Release: February 2016 Rev -

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qsg510
First Edition
February 2016

INTRODUCTION:

The ITX9000V uses the same hardware platform as other members of the ITX9000 family with one exception - the inclusion of an Intel 6100 6th generation CPU. A Wiondows 10 Operating System is provided. Users can install an alternative Operating System if desired.
A 250GB SSD is standard. Optionally, a 500GB or 1TB SSD can be substituted at time of order. 8GB RAM is standard. Optionally, an additional 8GB RAM can be added at time of order.
CAUTION: The ITX9000 Mobile Computers are sealed units and cannot be serviced by other than Elios personnel. Attempting to open an ITX9000 will void its warranty. If opened, the unit will not operate to specification.

A 180W AC adapter and a heavy duty DC power cord are provided.

Dimensions	245mm (9.66in.) W x 274.5mm (10.81in.) D x 68.5mm (2.70in.) H
Weight	Approximately 4kg (8.8 pounds)
Corrosion Protection	6063 extruded and anodized aluminum case (elastomeric seals throughout) Stainless Steel rear interface panel Conformal coated electronics with added protection against salt spray
Installed software	Windows 10 Operating System
Key Features	8GB RAM. Remote Tablet Control, High resolution Video, 5.1 channel audio, Asus signature series motherboard, Intel 6100 CPU, quiet no fan thermal system, fully operational straight out of the box with the addition of a user supplied keyboard and monitor
Integrated Functions	Wi-Fi 802.11a/b/g/n/ac, Bluetooth, smartphone/tablet support for ios7 and Android 4.0 systems, onboard overload and thermal protection systems for I/O and CPU
Back Panel I/O ports	1 x PS2 mouse/keyboard combo, 1 x HDMI, 1 x DVI-I, 1 x D-sub, 1 x Display Port, 1 x Optical S/PDIF Out, 1 x LAN (RJ-45), 6 x USB 3.0, 3 x Audio Jacks
Front Panel	2 x USB 3.0, Power Switch, HDD LED, Power On LED
Power Supply	Custom DC to DC digitally controlled PSU, 300W, 6-30VDC
RAM	8GB installed
SSD	250GB Samsung 850 series installed
VESA Mount	Four VESA Screws Provided.
AC adapter	100-240VAC in/19vdc out, 180W, provided.
Shock Isolation	Provided for PSU, motherboard/CPU, SSD

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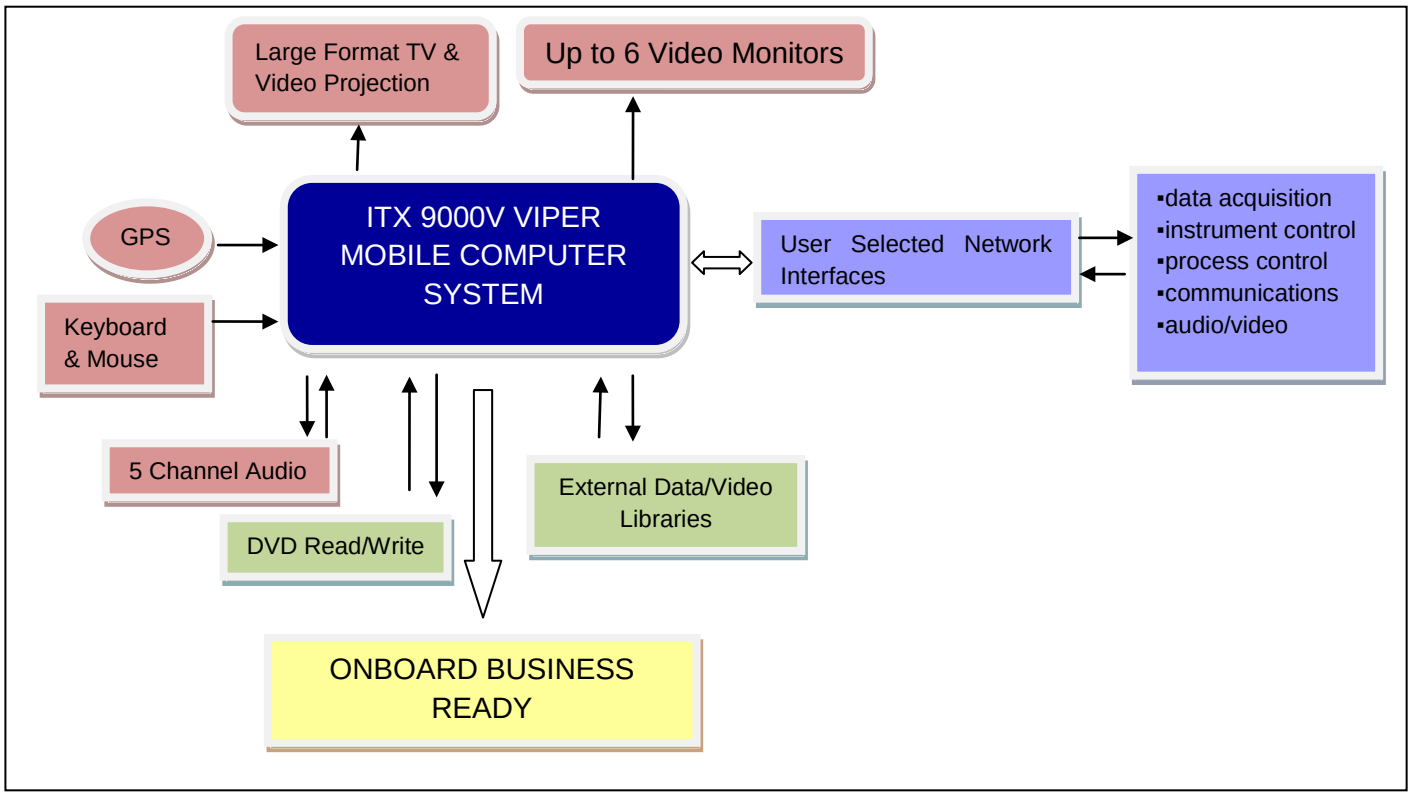
OVERVIEW:

This Quick Start Guide provides an overview of the ITX9000 system and instructions for connecting system components. Additionally, it provides guidance for initial startup and use.

The ITX9000V System:

NOTE: system peripherals and interfaces are user supplied.



☼ UNPACK, LOCATE AND CONNECT

UNPACK:

Carefully unpack all components shipped with the ITX9000V system. The ITX9000V and accessory components have been fully tested prior to shipment. This generally requires re-packaging of accessories prior to shipment. Inventory and verify all ordered items have been included before proceeding. Contact Elios Sales immediately if you encounter damage or find a missing item.

What's In The Box:

1. ITX9000V Computer System w/Windows 10 OS, Intel 6100 CPU, 250GB SSD, 8GB RAM
2. dual band Wi-Fi moving antenna (802.11a/b/g/n/ac)
3. High Power AC adapter
4. ITX9000V Quick Start Guide
5. DC Heavy Duty 10A Power Cable (for connection to onboard DC power)
6. Elios ITX9000V Compliance Test Report
7. Options as specified at time of order

LOCATE:

The ITX9000V is a portable computer system that can centralize many navigation and instrument functions while also providing powerful computer capability. It can also be used in industrial environments where a rugged, shock resistant computer is essential.

The two primary conditions for locating the ITX9000V are to 1) keep the unit dry and 2) provide the unit with free air circulation. If installed in a moving vehicle, ITX9000V must be secured at all times. The included VESA mounting screws can be used in a user provided installation or heavy duty nylon straps can be installed to keep the unit from moving while underway.

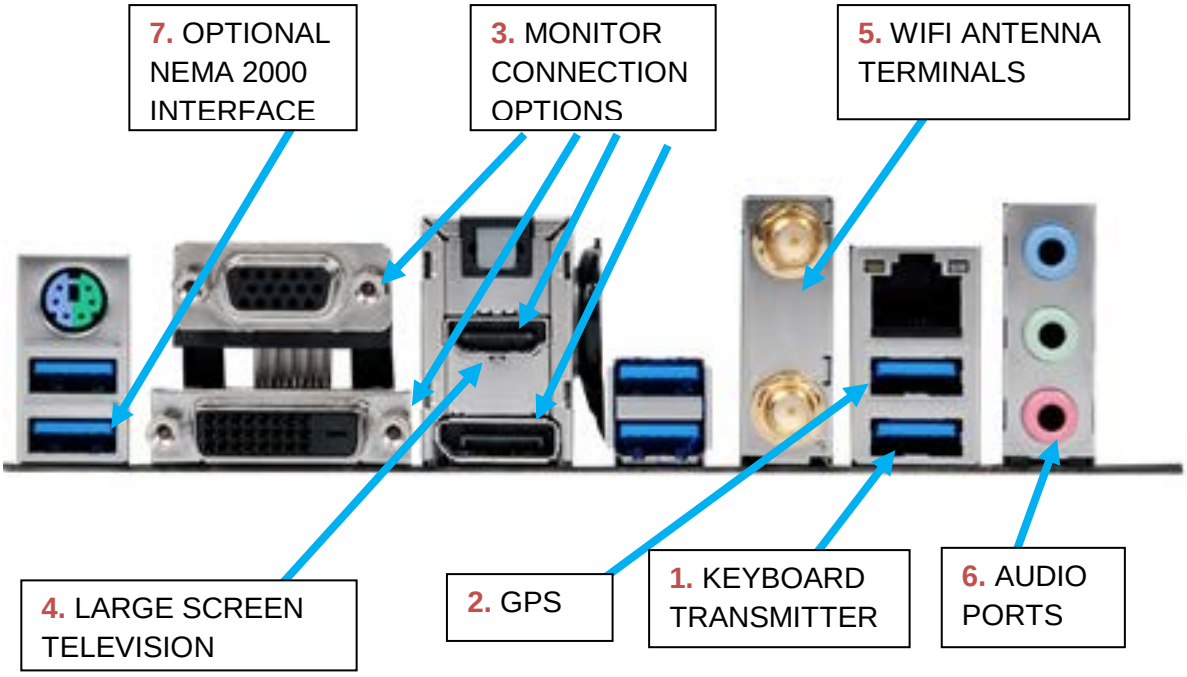
The ITX9000V can be mounted in any orientation. Multiple mount locations can be accommodated provided minimum wiring requirements are met. Provide sufficient clearance for wire connections at the rear panel and locate the following cables at the chosen use point(s).

- DC Power Cable*
- Monitor Cable (VGA, HDMI, DVI-I, or Display Port)*
- GPS Cable
- TV Cable (HDMI preferred)
- LAN Cable
- WiFi Antenna Cable
- Audio Cables
- Network Interface cable (eg. CANBUS or other)

* indicates a cable connection necessary for operation

Securely locate and mount your Computer Monitor. If your AC power adapter for this monitor has a 19VDC output, you may prefer the optional PS1 DC to DC converter which uses 12VDC ship/vehicle power for monitor operation, thus eliminating safety issues associated with energized AC supplies while underway.

CONNECT:



1. Connect a wireless keyboard transmitter to the indicated USB port.

2. If using a GPS Receiver, connect the GPS USB cable to the USB port directly above the USB port used for the keyboard transmitter.

3. The monitor (user supplied) can be attached to the VGA port, Display Port, HDMI port or DVI-I port. If the monitor accepts a Display Port connection, this would be preferred over all other alternatives. The Display Port can also be used with a Display Port to HDMI adapter which would then provide two HDMI port connections. If also connecting a large screen TV, leave the HDMI port free for this TV connection.

4. Connect a large screen TV to the HDMI port using a suitable HDMI cable. A high quality cable is preferred to assure good

video and audio fidelity, particularly in high resolution installations.

5. Connect the WiFi antenna to the corresponding WiFi terminals. Connection to either terminal with either wire is acceptable.

6. Connect audio to the appropriate audio terminals. Do not connect speakers with power requirements greater than 2W unless a separate amplifier is used. Computer speakers with outputs greater than 2 watts typically have amplifiers integrated into their design. Use the Lime colored port for either headphones or a 2.1 channel stereo system.

Audio connection options are as follows:

PORT	HEADSET 2.1 CHANNEL	4.1 CHANNEL	5.1 CHANNEL
Light blue	Line In	Rear Speaker Out	Rear Speaker Out
Lime	Line Out	Front Speaker Out	Front Speaker Out
Pink	Microphone In	Microphone In	Bass/Center

Headphones: Use the Lime Port. **Microphone:** Use the Pink Port.

Stereo Speakers: Use the Lime Port.

For a 2.1 Channel System: Use the Lime Port.

For a 4.1 Channel System: The Light Blue port connects rear audio. The Lime port connects front audio.

For a 5.1 Channel System: The Light Blue port connects rear audio. The Lime port connects front audio. The Pink port connects the Center/Subwoofer.

7. Connect the Network Interface (eg.CANBUS) to the indicated USB 3.0 port if this option has been purchased.

☼ STARTUP

AT HOME OR IN THE OFFICE:

- **Verify all necessary connections** have been made per the CONNECT instructions in the preceding section.
- **Insert the AC adapter** output cable male plug into the corresponding female DC input receptacle on the rear panel of the ITX9000V. Insert the adapter AC input cable into your local power outlet. The adapter accepts 50/60 Hz AC power of 100V to 240V. Power should now be available to the ITX9000V.
- **Press the Power Button** on the front panel of the ITX9000V. The unit will sequence through system integrity checks and start the Windows 10 Operating System.

VEHICLE OPERATION:

- **Verify all necessary connections** have been made per the CONNECT instructions in the preceding section.
- Verify 12V - 24V fused (15A) vehicle power is available to the DC cable connector. Verify proper polarity; red (+), white (-).
- **Press the Power Button** on the front panel of the ITX9000V. The unit will sequence through system integrity checks and start the Windows 10 Operating System.

☼ OPERATE

Install your preferred application programs.

We appreciate your decision to purchase the ITX9000V and welcome your feedback. We are committed to continuously improving our products.

The Elios Technologies Project Team

www.eliostechnologies.com