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# THE ITX9000 ULTRA QUICK START GUIDE

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Offices in the United States and Australia

[www.eliostechnologies.com](http://www.eliostechnologies.com)

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## INTRODUCTION:

The ITX9000U uses the same hardware platform as other members of the ITX9000 family with the addition of 16GB RAM memory in place of the standard 8GB. It is furnished with an installed Windows 10 Operating System and additional software to permit users to begin work with minimum effort.

Installed software includes the LibreOffice suite which provides word processing, spread sheet, presentation, draw, database management and mathematical formulae creation programs.

In addition, media player, virus and spyware protection software is installed.  
A summary of system specifications is shown in the table below.

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 Professional OS, Libre Office, VLC Media Player, Avast Antivirus, Super Antispyware
Key Features	16GB RAM. Remote Tablet Control, High resolution Video, 5.1 channel audio, Asus signature series motherboard, Intel I7-6700 series 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	16GB 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

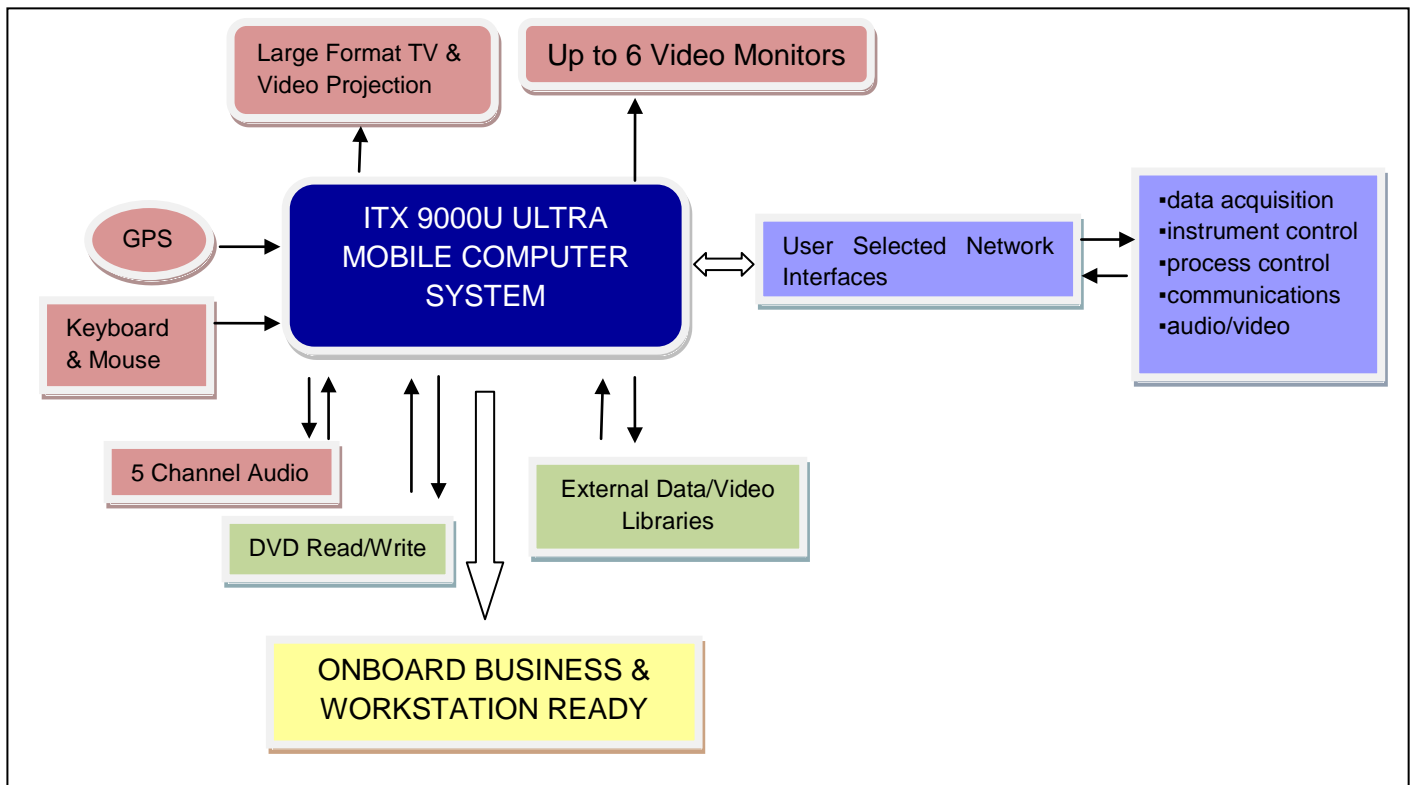


## OVERVIEW:

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 verification of included software. Detailed safety, installation and operational information expands on these instructions and is included in the ITX 9000U User Manual and associated guides packaged with the ITX9000U.

## The ITX9000U System:

NOTE: system peripherals and interfaces are user supplied.





## ☀ **UNPACK, LOCATE AND CONNECT**

### **UNPACK:**

Carefully unpack all components shipped with the ITX9000U system. The ITX9000U 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.

### **LOCATE:**

The ITX9000U is a portable 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 ITX9000U are to 1) keep the unit dry and 2) provide the unit with free air circulation. If installed in a moving vehicle, ITX9000U 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 secure while underway.

The ITX9000U 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)\*

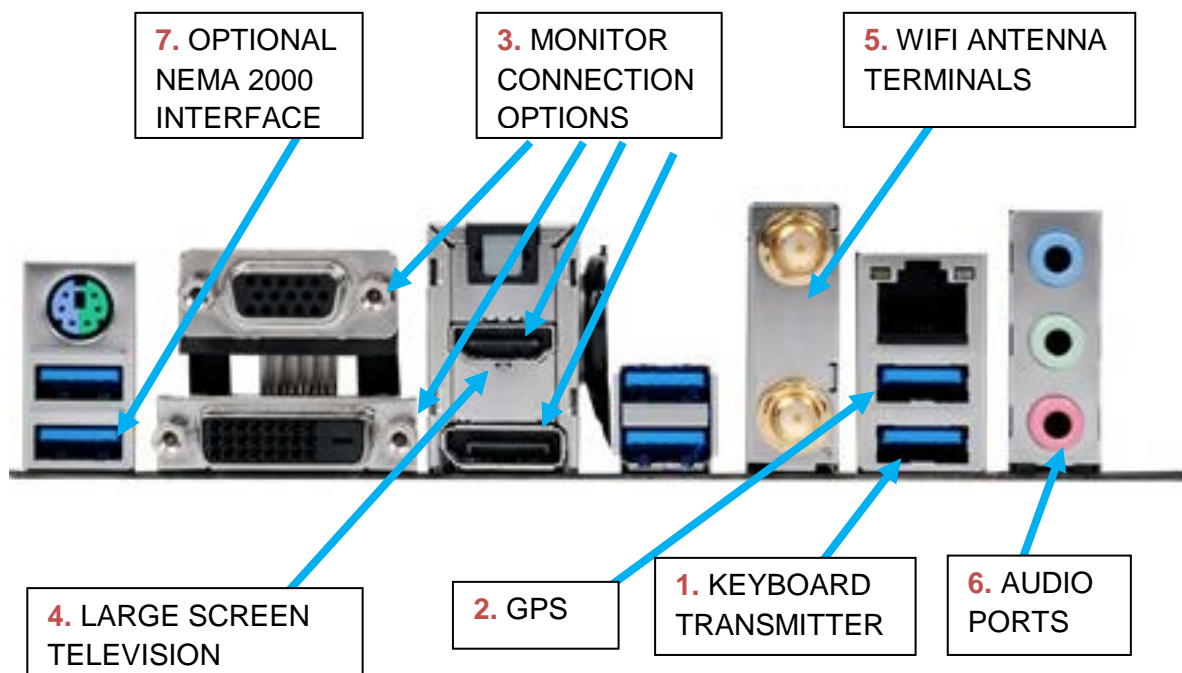


- GPS Cable\*
- TV Cable (HDMI preferred)
- LAN Cable
- WiFi Antenna Cable
- Audio Cables
- Network Interface cable (eg. CANBUS or other)

\* 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's power for monitor operation, thus eliminating safety issues associated with energized onboard AC supplies while underway.

## CONNECT:



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



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- 2.** Connect the GPS USB cable to the USB port directly above the USB port used for the keyboard transmitter. This port is designated as COM2 in software and is the only port to which the GPS should be attached.
- 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. Refer to the User Manual for additional channel options.
- 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 ITX9000U. 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 ITX9000U.
- **Press the Power Button** on the front panel of the ITX9000U. The unit will sequence through system integrity checks and start Windows 10 Professional. Use the Elios supplied temporary password included with your ITX9000U documentation. Press Enter. The Start Page should now be displayed.

### **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.
- **Press the Power Button** on the front panel of the ITX9000U. The unit will sequence through system integrity checks and start Windows 10 Professional. Use the Elios supplied temporary password included with your ITX9000U documentation. Press Enter. The Start Page should now be displayed.



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## **OPERATE**

Fully operational Programs have been integrated into the ITX9000U to enhance your capabilities and experience. The User Manual as well as provided specialty manuals offer detailed information describing how to best use these programs to meet your needs.

We appreciate your decision to purchase the ITX9000U and welcome any feedback you provide. We are committed to continuously improving our products.

The Elios Technologies Project Team

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