



TermiCom XPe 15” and 19” User Manual

Documentation Version: 13-10-2011



WEB site: www.symcod.com

E-mail: support@symcod.com

Warranty

Symcod warrants its products to be free from defects in material and workmanship during **one year** from the purchase date. If a product proves to be defective in material or workmanship during the warranty period, Symcod will, at its choice, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The replacement unit will be covered by the balance of the time remaining on the customer's original limited warranty. Symcod provides no warranty for the third-party software included with the product or installed by the reseller, distributor, customer or any other party.

Warranty does not include:

Any product on which the serial number has been defaced, modified or removed. Damage, deterioration or malfunction resulting from: Accident, misuse, neglect, fire, water (except for waterproof units), lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product. Repair or attempted repair by anyone not authorized by Symcod. Damage to or loss of any programs, data or removable storage media. Software or data loss occurring during repair or replacement. Any damage of the product due to installation of the product. Causes external to the product, such as electric power fluctuations or failure. Use of supplies or parts not meeting Symcod specifications. Failure of owner to perform periodic product maintenance as stated in documents supplied. Any other cause which does not relate to a product defect. Damage caused by static. Removal, installation, freight and set-up service charges.

Warning



Safety & reliability, page 3

Powering, page 9

Earth ground, page 9

Fixation & handling, page 11

Cleaning, page 15

Disclaimer

The material on this document* is intended for end user, distributor and/or reseller use. Although downloading and printing documents is allowed, Symcod will not be responsible for any modification or any other use of any content in the displayed/downloaded material.

Please note that all documents* are subject to change without notice and are occasionally revised to specify, correct or revise the content or for other purposes. Therefore, the version displayed on the site may differ from your original printed copy. Please contact us if you require assistance. Symcod Inc. assumes no liability for damage incurred directly or indirectly, errors, omissions or discrepancies between the device and the manuals or documents supplied. Symcod is not responsible for any loss or damage (Including data corruption, interruption of operation, lost business information, lost production, etc.) caused by use, non-use or misuse of any of the information contained in this document*. Symcod Inc is not responsible of the content or validity of the links gave as references for other products not manufactured by Symcod Inc.

**Documents include instruction book, user guide, operating instructions, manuals, safety precautions / instructions, data sheets or any other documents supplied by Symcod.*

IMPORTANT

Read me first

By carrying out the installation and the use of this equipment you accept the rules and limitations described in this document or any other document relating to this product.

By carrying out the installation and the use of this equipment you are presumed having read all the safety warnings (⚠).



WARNING: Safety and reliability

SYMCOD Inc will not be responsible for the use of this equipment for other purpose than data collection. This equipment is designed and intended for an industrial and commercial use only. The TermiCom XPe is not for a residential use.

Content

TermiCom XPe	5
Main characteristics	6
Environmental specifications.....	6
Power	9
Options description	9
Using modes.....	10
Desktop or wall mount, side view	10
Desktop, back view	10
How to install your TermiCom XPE	11
Detailed Specifications	12
Power connector.....	12
TermiCom XPE configuration.....	13
Recommendations.....	15
TermiCom XPE maintenance	15
Certification	15
Troubleshooting	15
Accessories & options	16
Dictionary	17
Service and support.....	17
Support.....	17
Return Merchandise Authorisation (RMA)	17

TermiCom XPe

TermiCom XPE is microcomputer specifically designed for dusty industrial environment without watering. The casing of the XPe is made of aluminum witch give it is lightness and resistance. Basic TermiCom XPe is provided with a Atom 1,6 GHZ, a 15" tactile color screen (LCD TFT resistive) and with a solid aluminum stand which allows desktop or wall mount installation in a few minutes. Several inputs and outputs make possible the addition of peripherals such as industrial keyboard, bar code scanner or any other peripherals. The flash memory included with the basic version can be completely protected. This feature is used to prevent any modification made by the user that could put in danger the application or the operating system. The basic operating system included in TermiCom XPE is Windows XP Embedded; it is directly installed on the flash memory. For users who wish to have a complete version of Windows XP Pro, a version of TermiCom XPe including this operating system is available. In that case, the operating system will be installed on a hard disk.

The Ultra-Resistant touch screen option is offered when the TermiCom will be used in environment in which there is particularly abrasive dust. Contrary to the standard touch screens that are covered with a polymer, this one is covered with a thin layer of tempered glass, which makes it much more resistant to the abrasives and even allows it to function with deep scratches. You can also use the wireless version of TermiCom XPe by including the WiFi 802.11b/g option.

Main characteristics

TermiCom XPe 15"

# Product	Comm.		Color touch screen	Windows operating system			RAM		Stockage Memory			Inputs / Outputs					Power requirement without peripheral (max.)
	Ethernet	802.11B	15" Ultra resistant ¹	XPe (XP Embedded)	XP PRO English	XP PRO French	2 gig	Flash 2 gig	Hard disk 80 GIG	Ethernet Port 10/100 Bse T	USB Ports	Serial Port	Parallel Port	Audio output	SVGA port		
004-01863B-2200	X	O	X	X			X	X			2	4	3	0	1	1	37W
004-01863B-3200	X	O	X	X			X		X	2	4	3	0	1	1	37W	
004-01865-3200	X	O	X		X		X		X	2	4	3	0	1	1	37W	
004-01866-3200	X	O	X			X	X		X	2	4	3	0	1	1	37W	

O = Available Option

¹ Recommended for environments with very abrasive dust, screen covered with a fine layer of tempered glass, allows operation with deep scratches.

Environmental specifications

Product	Fix	Mobile	Interior	Exterior	Dust	Water	Operating temperature C ^{o1}	Storage temperature C ^o	Humidity without condensation C ^o
Xpe	X		X		X		5° to 40°	-20° to 60°	20° to 80°
Xpe opt RF	X		X		X		5° to 40°	-20° to 60°	20° to 80°

¹ Maximum temperature, **IMPORTANT**:

* Do not cover while the unit is ON.

* The back of the TermiCom should not be placed flat on a table while the unit is ON.

* Keep the surfaces of the TermiCom free of any material and respect a minimum area of 2" between the back of TermiCom and of any surface in order to allow the dissipation of the internal heat.

Main characteristics

TermiCom XPe 19"

# Product	Comm.		Color touch screen	Windows operating system			RAM		Stockage Memory			Inputs / Outputs						Power requirement without peripheral (max.)
	Ethernet	802.11B	19" Ultra resistant ¹	XPe (XP Embedded)	XP PRO English	XP PRO French	2 gig	Flash 2 gig	Hard disk 80 GIG	Ethernet Port 10/100 Bse T	USB Ports	Serial Port	Parallel Port	Audio output	SVGA port			
004-01891-2200	X	O	X	X			X	X			2	4	3	0	1	1	56W	
004-01891-3200	X	O	X	X			X		X	2	4	3	0	1	1	56W		
004-01896-3200	X	O	X			X	X		X	2	4	3	0	1	1	56W		
004-01895-3200	X	O	X		X		X		X	2	4	3	0	1	1	56W		

O = Available Option

¹ Recommended for environments with very abrasive dust, screen covered with a fine layer of tempered glass, allows operation with deep scratches.

Environmental specifications

Product	Fix	Mobile	Interior	Exterior	Dust	Water	Operating temperature C ^{o1}	Storage temperature C ^o	Humidity without condensation C ^o
Xpe	X		X		X		5° to 40°	-20° to 60°	20° to 80°
Xpe opt RF	X		X		X		5° to 40°	-20° to 60°	20° to 80°

¹ Maximum temperature, **IMPORTANT**:

* Do not cover while the unit is ON.

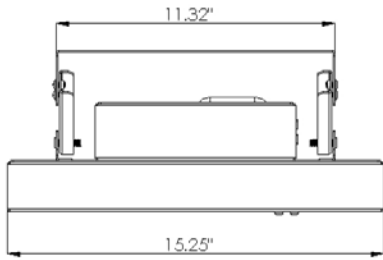
* The back of the TermiCom should not be placed flat on a table while the unit is ON.

* Keep the surfaces of the TermiCom free of any material and respect a minimum area of 2" between the back of TermiCom and of any surface in order to allow the dissipation of the internal heat.

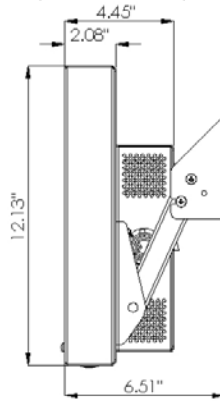
Desktop and wall mount position (in inches) for the 15" and 19"

TermiCom XPe 15po

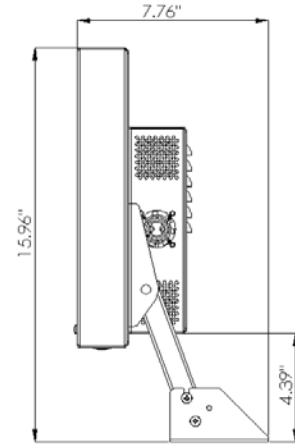
Top view



Side view
(wall mount)

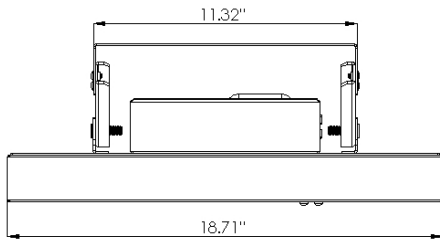


Side view
(table mount)

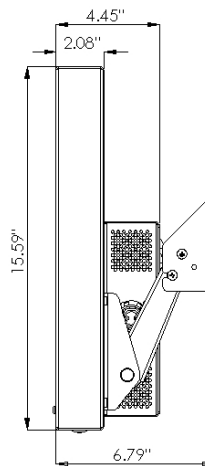


TermiCom XPe 19po

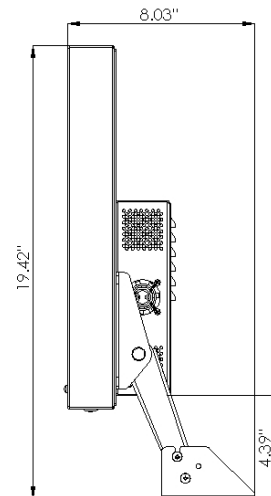
Top view



Side view
(wall mount)



Side view
(table mount)



Power

TermiCom XPe is powered through an external 12 Vcc power supply which connects to a 120/240VAC power network. (Power cable and power supply are provided with the unit, for replacement, order product #504-00028)



WARNING: powering

Before installation, please turn off powering source. Plug the unit only when the installation is completed.



WARNING: earth ground

Make sure that the TermiCom case is properly grounded.

Options description

RF option

RF option (# OPT-802XPE) makes possible the use of TermiCom XPE without wire. The communication type Wi-Fi 802.11a/b/g supports the 802.11B. A minimum 802.11B Wi-Fi infrastructure is required.

Using modes

Desktop or wall mount, side view



**Side view
Wall mount version**



**Side view
Desktop version**

Desktop, back view



Back view



**Back view
With Wifi option**

How to install your TermiCom XPE

The support provided with TermiCom XPE permit to install the unit on a wall or on a table. Once fixed, the angle of TermiCom XPE can be easily adapted to the needs of each user, no need to do a new adjustment of the screws (see ⚠ TermiCom fixation/handling)

IMPORTANT: The TermiCom should not be cover while ON. The back of the TermiCom should not be placed flat on a table (or other surfaces), the back of the unit is acting as a heat dissipater. Respect a minimum of 2" between the bottom of TermiCom XPE and any surface.

How to install TermiCom XPE

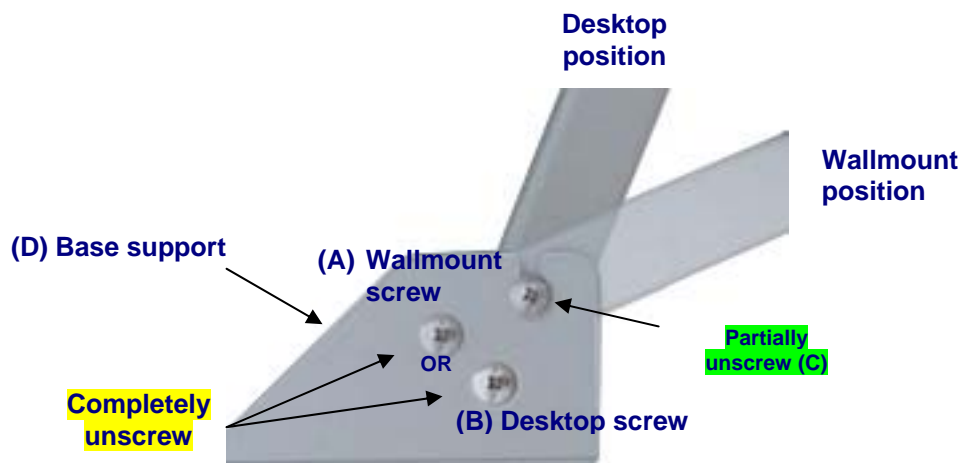


Figure 1
Base support TermiCom XPe
Side view

1. Determine the appropriate emplacement (plane & motionless surface). **Be sure to choose a fixed and solid plane surface able to support the weight of the TermiCom.**
2. On the base support (D), **completely unscrew** screw A (wall mount) or the screw B (desk top). **Partially unscrew** the screw C (see figure 1).
3. Separate the base support (D) from the TermiCom XPe.
 - Fix the base support (D) at the chosen emplacement.
 - Replace XPe TermiCom on its base support in the desired position (Wall mount or desktop) and fixed the corresponding screw, A for wall mount, B for desktop.
 - Tighten the screws on each side of the base support.

 **WARNING: fixation & handling**

Choose a fixed and solid plane surface able to support the weight of the TermiCom (approximately 10 Pounds/4.54Kg). Handle the TermiCom safely in order to avoid any back wound.

Detailed Specifications

TermiCom XPe is provided with several ports allowing the connection of various types of peripherals according to needs, for example: printers, electronic scales, bar code scanners, sensors...



Figure 2
TermiCom XPe bottom view

Power connector

The power connector (figure 2) allows the XPe TermiCom to be connected to the 120V or 240VAC power network.

Connectors

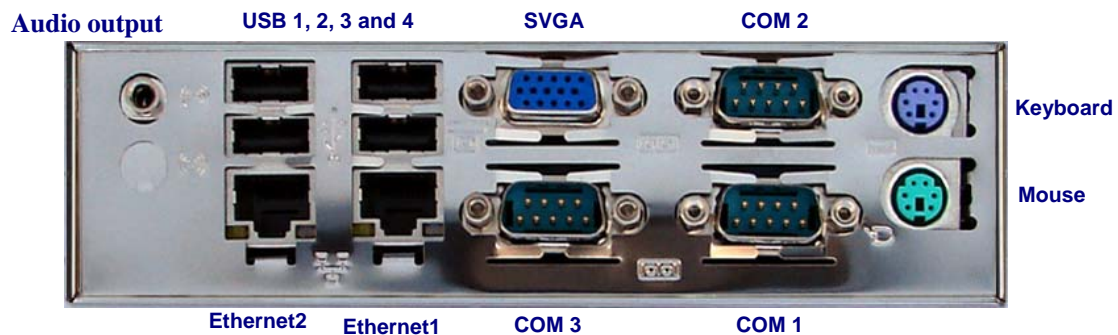


Figure 3
TermiCom XPe connectors

Powering: Allow to connect to a 120V or 240VAC power network (external power supply)

Audio output: Allow to plug an external audio output

Port SVGA : Allow to plug a screen

COM 1-2-3 (serial port): Allow to connect peripherals like printers, scales, electronics automats... with a 9 pins female cable (not included)

USB1, USB2, USB3, USB4 connectors: Allow to connect USB peripherals, make for "A" type USB connectors.

2 Ethernet connector : Allow to communicate through an Ethernet 100 Bases-T connection with a standard RJ-45 connector. As any equipment Ethernet 100 Bases-T that uses cable UTP Cat5, a maximum of 300feet (91.44 meters) of cable is allowed between the "hub" and/or the "switch" and the TermiCom. For more details concerning wiring, please download the document "WIRING AND EXAMPLE OF CONFIGURATION TCP/IP" available on www.symcod.com .

TermiCom XPE configuration

Operating system

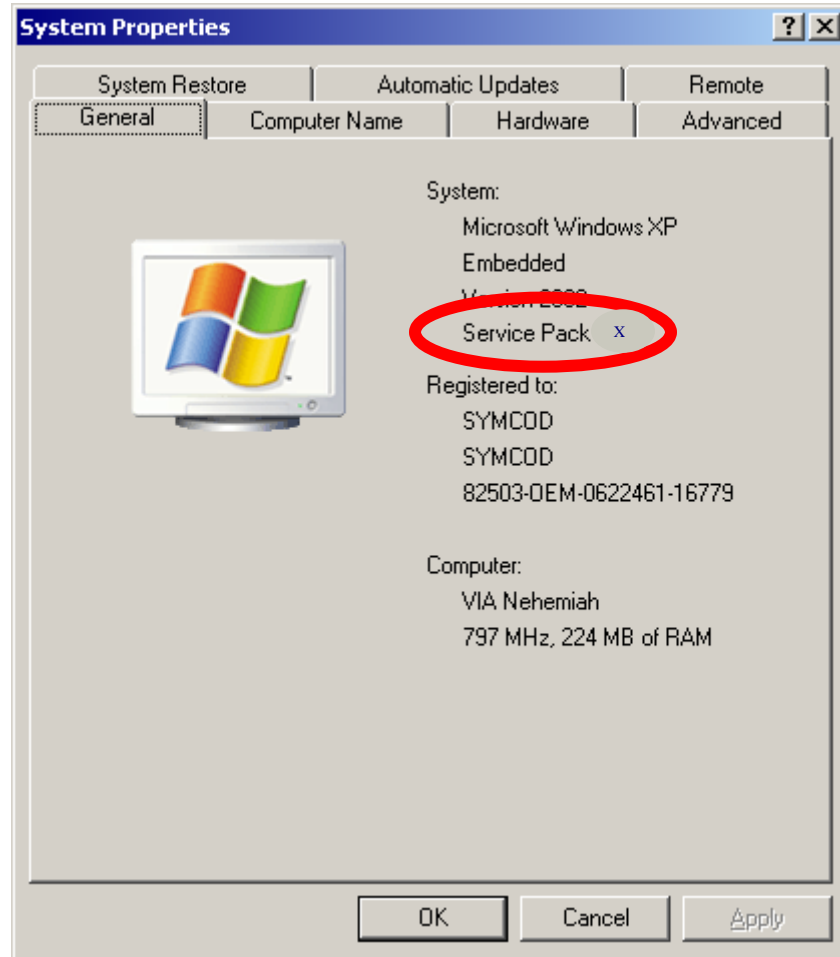


Figure 4
Service pack version

The basic operating system of TermiCom XPE is Windows XP Embedded which is a reduced version of Windows XP Professional. To check the version of the service pack of your Windows XPe, please refer to your system properties (Start/setting/Control panel/system/general - figure 4). **Windows XP Embedded included in TermiCom XPE is specifically designed to work with the TermiCom and cannot in any case be transferred on another computer.** TermiCom XPe can also support the complete version of Windows XP Professional. In this case, the XPe will be provided with a hard disk.

ADMINISTRATOR authentication

At start, the XPe TermiCom is authenticated as a user without privileges. To authenticate yourself as an administrator, you must at start, hold the "Shift" key of your keyboard until the window of authentication appears. Then, enter the term "Administrator" in the "user name" and "Password" field (You must respect lower and upper case).

* If you do not want to restart your computer, log off while holding inserted the button "Shift".

Software or driver addition

To add a driver or software to the XPe TermiCom it is necessary to be authenticated as administrator (see ADMINISTRATOR authentication section). The file transfer can be easily done. You can use any peripheral connected on one of the XPe USB port (CD reader, disk drive, USB "Flash" disk) or use the Ethernet network. Since Windows XP Embedded does not contain all the components and drivers of Windows XP Professional, it is possible that your software requires a missing component; this will generate an operating error in the software. If it is the case, please address an email request to support@symcod.com. A Symcod technician will be able to help you to identify the missing component.

Starting with "Safe Mode"

In certain cases, it can be necessary to start Windows in "Safe Mode". To do so, let the computer start normally and type "MSCONFIG" in the field "Run..." of the Start menu. Select "Startup Diagnosis" and click on "ok". After a few seconds, you will be asked to start again, press "Restart". After the restarting, the system informs you that it is in diagnosis mode (being equivalent of "Safe Mode"). To return to "normal" mode, still use order "MSCONFIG" but select "Normal Startup" then start again.

Recommendations

Ethernet: Before proceeding with the wiring installation, please consult “Ethernet wiring and recommendations TCPIP” (available at www.symcod.com)

Installation: Do not cover while the unit is ON. The back of the TermiCom should not be placed flat on a table while the unit is ON. Keep the surfaces of the TermiCom free of any material and respect a minimum area of 2” between the back of TermiCom and of any surface in order to allow the dissipation of internal heat.

TermiCom XPE maintenance

Cleaning: Anodise aluminium may react to some chemical agents, in particular with ammonia and with products containing hydroxide or certain acids. Clean it with a soft soap or solvent to prevent the damage of the case. Once in a while, use air blast to remove dust.

Certification

This equipment has been found compliant to class A Part 15 of FCC Rules. These limits are intended to get a reasonable protection against dangerous interferences when the equipment is used in an industrial or commercial environment. This equipment emits uses and can generate radiations of radio frequencies and can cause dangerous interference for radio communications if it is not used in accordance with the instruction manual. The use of this equipment is not planned for a residential use.

Troubleshooting

Problems	Solutions
I am unable to reach or modify the system options	At start, the XPe TermiCom is authenticated as a user without privileges. To authenticate you as an administrator, refer to the “ADMINISTRATOR authentication” section.
I saw the LED lights but there is no screen display	Unplug the 120V power for 10 seconds, plug the XPe. If there is no improvement, sent a request including the serial number and the detailed description of the problem to technical support at support@symcod.com .
"DLL missing", error displayed at software or driver installation	Extract a DLL file from another computer working with Windows 2000 or XP. Copy this file in the repertory specified in the error message (usually on C:\windows\system32\)

Accessories & options

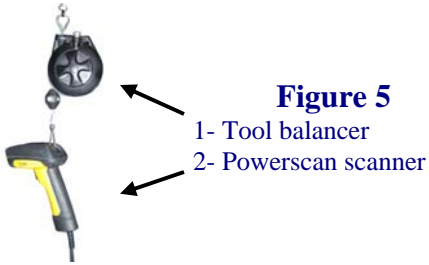


Figure 6
SKM silicone keyboard
Sealed rigid casing

# product	Description
OPT-802XPE	RF option, 802.11b, 5.5 dBi antenna
504-00028	Power supply for TermiCom XPe (for replacement, one cable provided)
008-01801	SKM Keyboard, USB, sealed, silicone (See figure 6)
201-58064	PSC Powerscan scanner, industrial, standard range, with USB cable (See figure 5-2)
508-58001	Tool balancer for scanner (See figure 5-1)
203-01001	Aluminium touch pen, Teflon tip, wire & holder

Dictionary

Authentication	Procedure that allows checking or validating the identity of a person or the identification of any other entity, during an electronic exchange, to control network access, system information processing or software.
Resistive (screen)	Can function with finger or object pressure (pencil...)
Flash memory	Data storage piece made without any mobile hardware element. Can store data over several years without being powered by electricity.
Peripheral	External device connected to the central processing unit. Can ensure the entry or the exit of data.
Pilot	Control program which translates the orders of a software in order to make possible the communication between the computer and a peripheral.
Operating system	Computer basic software intended to order the execution of programs by ensuring the work management, the input-output operations on peripherals, the resource allocation to the various processes, the access to program libraries and files, as well as the accountancy of work.

Service and support

Support

Please use **EMAIL** for your requests.

- For **technical questions** (hardware and software), email at support@symcod.com
 - Provide a detail description of the problem and/or questions (intermittent problem happens when...)
 - Please indicate model number and serial number (if applicable).
- For **all other questions**, please use symcod@symcod.com or Symcod Inc. at

1171 Notre-Dame O., Victoriaville, Qc, G6P 7L1
 Phone: 1-800-203-9421, 1-819-751-0095
 Fax: 819-751-1292

Return Merchandise Authorisation (RMA)

All return request must be authorized by SYMCOD Inc. To do so please refer to the following:

<http://www.symcod.com/rma>

- You will receive a formal confirmation number (# RMA)
- The RMA number must be printed on each box.
- All freight charges are at the customer expense and responsibility. Please take note that “collect” package will be refused.