Install/Remove Touchscreen Protective Film

LXE offers a replaceable touchscreen protective film to protect the touchscreen when the VX6 is used in an abrasive environment.

How To Install Touchscreen Protective Film

1. Make sure both the touchscreen and protective film are clean and dry before installation. Please review "Cleaning the Display", later in this guide, for instructions on suitable cleani
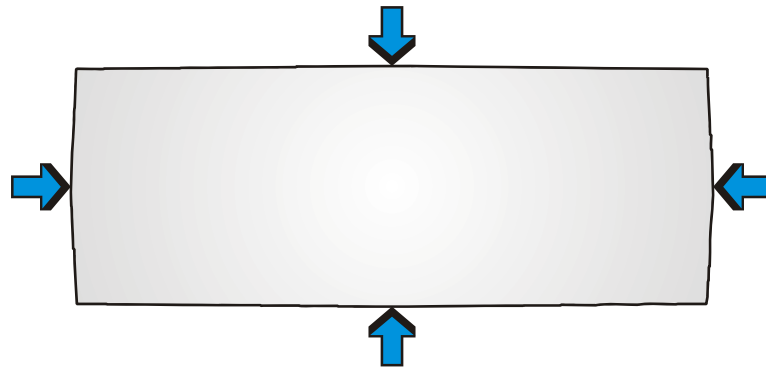

Figure 35 VX6 Touchscreen Protective Film

2. Center the protective film over the touchscreen. The antiglare side must be facing outward. Do not cut or trim the protective film.

3. The protective film is approximately 1/10" (2.54cm) larger than the touchscreen at the centers of the edged (indicated by the arrows in the figure above).

4. Slide the protective film so that one of the edges of the film can be slid between the touchscreen and display housing when the protective film is re-centered on the touchscreen. Repeat for the other three edges, ensuring the protective film is centered over the touchscreen when finished.

How to Remove Touchscreen Protective Film

1. To remove the protective film, slide the protective film in one direction until the edge clears. Lift up on the edge of the film so it does not slide between the touchscreen and display housing when slid back. Repeat until all edges are free and remove the protective film.

.

UPS Battery Pack Remote Mount

The optional UPS battery pack must be mounted remotely when using the RAM mount system or a U-bracket designed for a previous model LXE computer. The remote mount can also be used with the VX6 U-bracket assembly if it is not convenient to mount the UPS battery pack to the U-bracket.

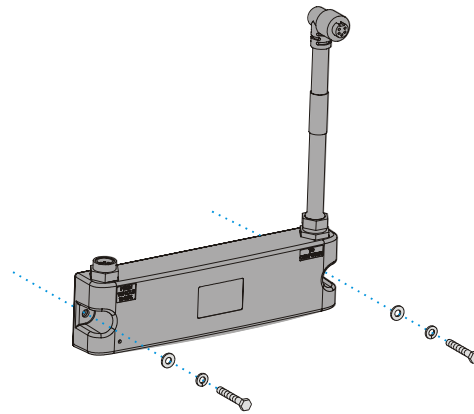A six foot extension cable is available to connect the UPS battery pack to the VX6.

Figure 36 Remote UPS Battery Pack Mount

1. Position the UPS battery pack to allow cables to reach the vehicle battery and the VX6.

2. Attach the UPS battery pack to the vehicle mounting surface using two 1/4 bolts, lock washers and flat washers (or equivalent) fasteners.

    Note: 1/4 bolts and washers not included.

IMPORTANT: Mount to the most rigid surface available.

UPS Battery Pack Remote Mounting Dimensions

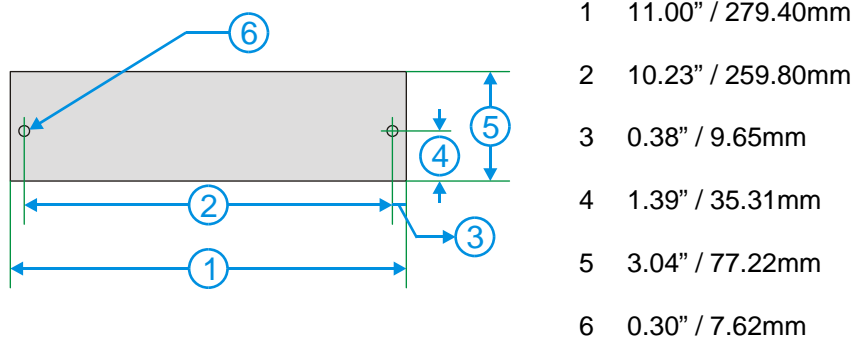|	
1	11.00" / 279.40mm
2	10.23" / 259.80mm
3	0.38" / 9.65mm
4	1.39" / 35.31mm
5	3.04" / 77.22mm
6	0.30" / 7.62mm

Figure 37 UPS Battery Pack Remote Mounting Dimensions

Connect Antenna

Several antenna options are available for the VX6. Options include single or dual external antennas, remote vehicle mount antennas and an internal antenna.

External Antenna

Note: VX6's are equipped with a radio and require an antenna. Some VX6's may be equipped with a dual antenna option. For these VX6's, an external antenna must be connected to each antenna connector.
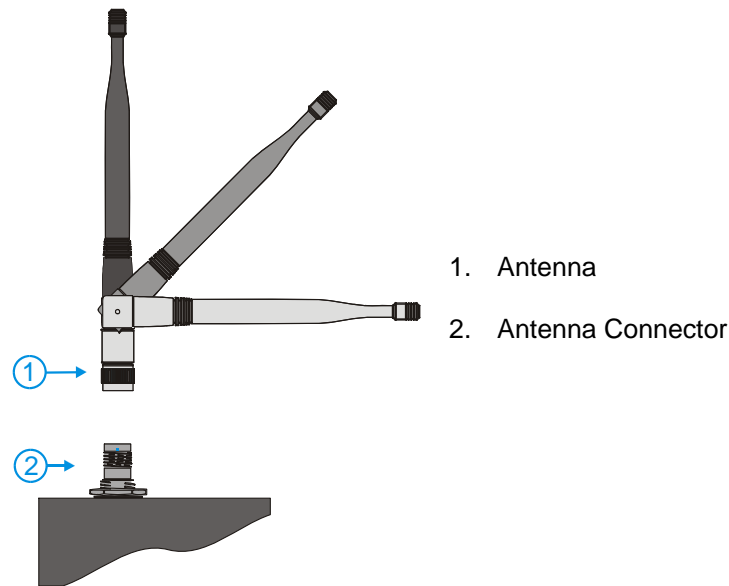

1. Antenna

2. Antenna Connector

Figure 38 Connect External 2.4GHz Antenna

Place the antenna over the antenna connector. Push down and twist clockwise until the antenna is secured.   Repeat for second antenna connector, if present.

Adjust the antenna angle to improve RF communications with the computer network.

Note: Substitution of antennas is not permitted unless authorized by LXE. Use of unauthorized antennas will void the FCC emissions certification of the VX6.

Remote Vehicle Mount Antenna

The external antenna (or antennas) can be remotely mounted on the vehicle. Please refer to the "Vehicle Remote Mount Antenna Installation Sheet" for details.

Internal Antenna

If the internal antenna option is ordered, an antenna is mounted on the inside of the user access panel cover.
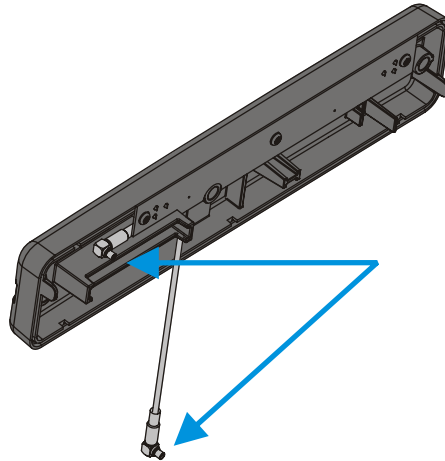

Figure 39 Internal Antenna Cables

The internal antenna assembly has two antenna cables. Attach the antenna cables to the radio card. When this process is complete, reattach the access cover screws using a torque wrench capable of measuring to 9±1 inch pounds force (1.016±.11 N m). The screws must be fastened to 9 inch pounds each. The screws require a Phillips size 1 driver head.

Connect Serial Barcode Scanner

Refer to the documentation received with the barcode scanner for complete instructions. Read all warnings and caution labels.

Before using the scanner, read section titled "Operation", sub- section titled "Laser Barcode Scanner Warnings".

Pin 9 of COM1 is configured to provide +5V. To change Pin 9 of the port, please refer to the "VX6 Reference Guide".

The scanner cable is attached to the connector labeled "COM1/SCANNER". The scanner receives power from the VX6.

The cable requires a nine-pin D-shell female connector for the VX6.

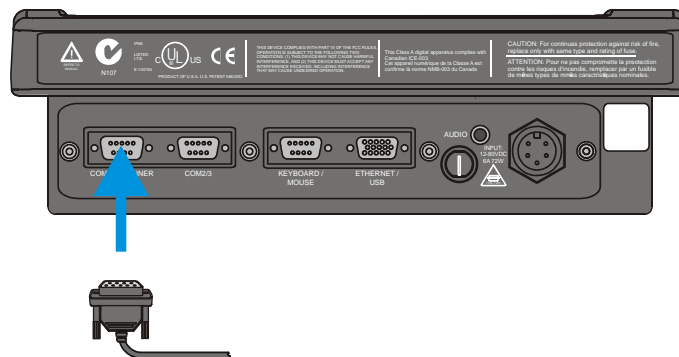*Note: Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.*
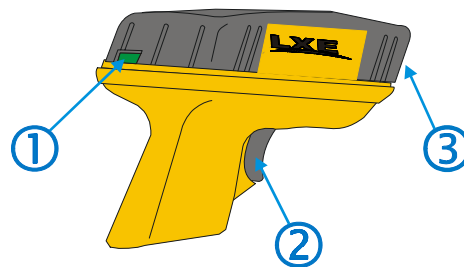

Figure 40 Connect Serial Scanner Cable

1.   Power off the VX6 before connecting the scanner cable to the VX6.

2.   Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not overtighten.

3.   Use a strain relief clamp to secure the cable.

4.   Press the power button to power up the VX6.

When you have finished using the scanner, remove it from the VX6 and store the scanner in a closed container or bag.

Figure 41 VX6 with Generic Barcode Scanner Attached

1. Good Scan LED (or equivalent)

2. Trigger

3. Laser Aperture at Front

Figure 42 Generic Barcode Scanner

Refer to the documentation received with the barcode scanner for complete instructions.

Connect Serial Printer or PC

Refer to the documentation received with the printer or PC for complete instructions.

Pin 9 of COM3 (labeled "COM2/3") is configured to provide RI. To change Pin 9 of the port, please refer to the "VX6 Reference Guide".

The printer or PC cable requires a nine-pin D-shell female connector for the VX6.

The printer or PC cable is attached to the connector labeled "COM2/3".

Note: Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.
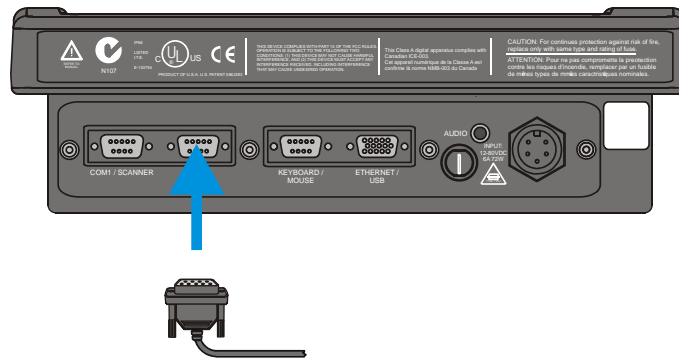
Figure 43 Connect Serial Cable to COM3

1.   Power off the VX6 before connecting the cable to the VX6.

2.   Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not overtighten.

3.   Use a strain relief clamp to secure the cable.

4.   Press the power button to power up the VX6.

Ethernet and USB Ports

An Ethernet port and different types of external USB ports are available via a dongle cable attached to the port labeled "ETHERNET/USB", located on the bottom of the VX6. Please refer to the illustrations below for the connectors available via dongle cable.
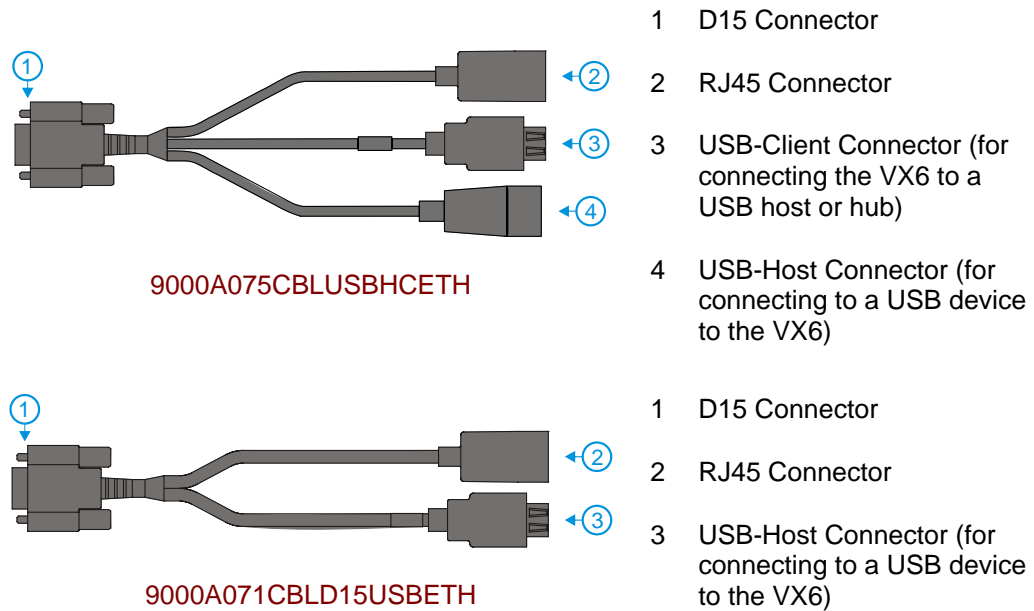

9000A075CBLUSBHCETH

1   D15 Connector

2   RJ45 Connector

3   USB-Client Connector (for connecting the VX6 to a USB host or hub)

4   USB-Host Connector (for connecting to a USB device to the VX6)

9000A071CBLD15USBETH

1   D15 Connector

2   RJ45 Connector

3   USB-Host Connector (for connecting to a USB device to the VX6)

Figure 44 VX6 Ethernet/USB-H/USB-C Dongle Cables
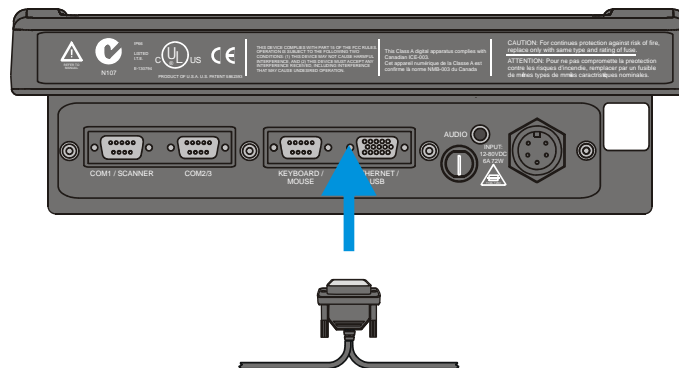

Figure 45 Connect Ethernet/USB Dongle Cable

Note: D15 to Ethernet/USB Host cable shown.

1. Power off the VX6 before connecting the D15 connector to the VX6.

2. Insert the D15 end of the Ethernet/USB dongle cable into the VX6 USB connector. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not over tighten.

3.   Use a strain relief clamp to secure the cable.

Note: The VX6 may be powered On any time after the D15 connector has been secured to the VX6.
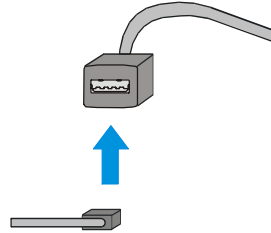

Figure 46 Connect USB Device to Dongle Cable

Note: USB Host connection shown.

4.   Plug the desired device, such as a USB mouse or floppy drive, into the end of the dongle cable with the USB port. Refer to the documentation for your USB device for more details on installation. USB devices may be installed, removed or swapped without turning off the VX6.

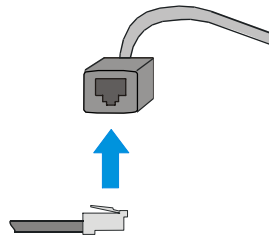**Figure 47 Connect Ethernet Cable to Adapter Cable**

5.   Insert the network cable and ensure it is firmly seated in the connector jack.

6.   To remove the Ethernet cable, press the release tab on the cable end.

USB Mouse

The USB port may be used to connect a USB mouse to the VX6, however the mouse pointer may not always be visible. Please see "Touchscreen and USB Mouse" later in this manual for more details.

Connect External Headset

The VX6 provides an external headset connection via an audio jack connector labeled "Audio". The audio jack accepts a headset with a 2.5mm plug, such as a mono headset with microphone or a stereo headset. Please refer to the VX6 Reference Guide for information on configuring the audio port for a mono headset with microphone or a stereo headset.
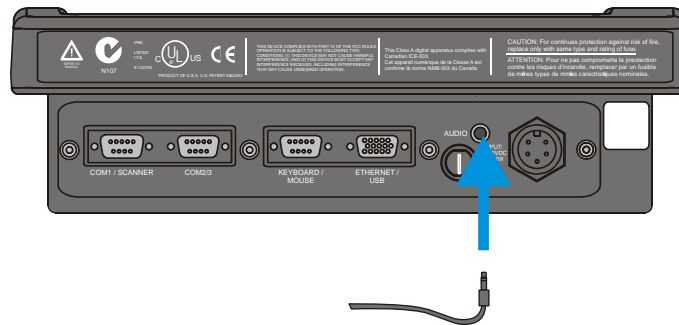

Figure 48 Connect External Headset

1.   Insert the speaker or headphone plug into the audio connector; making sure the plug is firmly seated in the audio jack.

2.   Replace the plug when the speaker or headset is removed from the audio jack.

3.   Use a strain relief clamp to secure the cable.

Connect Power Cable and Optional UPS Battery Pack

1. Turn the VX6 off before attaching the power plug.

2. Connect the power cable to vehicle power (See the following section titled "Vehicle 12-80VDC Direct Connection".)

   - or -

   to an AC adapter. (See the following section titled "External Power Supply".).

3. Several possibilities are available for routing the vehicle power to the VX6. See the following section titled "Vehicle 12-80VDC Direct Connection" for details.

4. All plugs and receptacles are keyed and care must be used when connecting the cables. Tighten the nut of the plugs clockwise until tight.

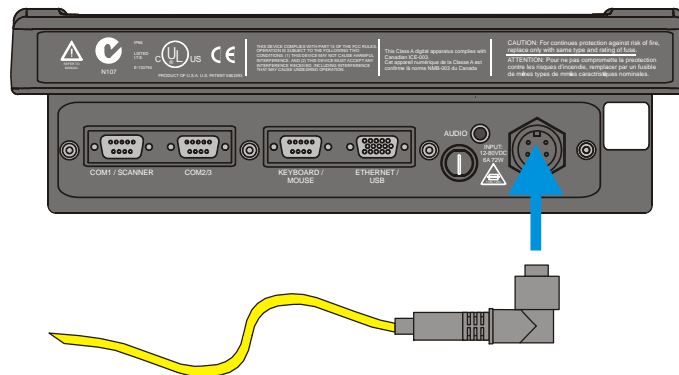   Secure the cable with the strain relief cable clamps.

Figure 49 Connect Power Cable to VX6

5. Turn the VX6 on.

External Power Supply, Optional

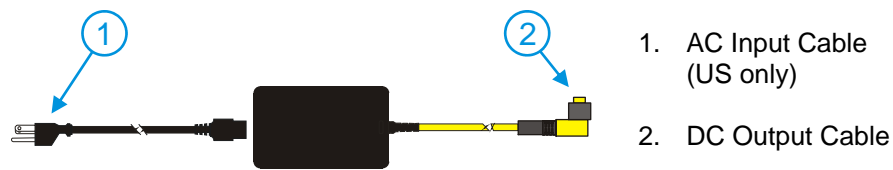The LXE-approved AC Power Adapter is only intended for use in a 25ºC (77ºF) maximum ambient temperature environment.

1. AC Input Cable (US only)

2. DC Output Cable

Figure 50 Optional Power Configuration

In North America, this unit is intended for use with a UL Listed ITE power supply with output rated 12 – 80 VDC, minimum 75W. Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated 12 – 80 VDC, minimum 75W.

The external power supply may be connected to either a 120V, 60Hz supply or, outside North America, to a 230V, 50Hz supply, using the appropriate detachable cordset. In all cases, connect to a properly grounded source of supply provided with maximum 15 Amp overcurrent protection (10 Amp for 230V circuits).

How To: Connect External Power Supply

1. Turn the VX6 off.

2. Connect the detachable cordset provided by LXE (US only, all others must provide their own cable) to the external power supply (IEC 320 connector).

3. Plug cordset into appropriate, grounded, electrical supply receptacle (AC mains).

4. Connect the watertight connector end to the VX6's Power Connector by aligning the connector pins to the power connector; push down on the watertight connector and twist it to fasten securely.

5. Turn the VX6 on.

Vehicle 12-80VDC Power Connection

Caution: ⚠	*For proper and safe installation, the input power cable must be connected to a fused circuit on the vehicle. This fused circuit requires a 10 Amp maximum time delay (slow blow) high interrupting rating fuse. If the supply connection is made directly to the battery, the fuse should be installed in the positive lead within 5 inches of the battery positive (+) terminal.*
Caution: ⚠	*For installation by trained service personnel only.*
Warning: ⚠	*Risk of ignition or explosion. Explosive gas mixture may be vented from battery. Work only in well ventilated area. Avoid creating arcs and sparks at battery terminals.*

Note: Please see "Power Adapter Cable" later in this section for information on adapting a VX1, VX2 or VX4 DC power supply to the VX6.

1. To Vehicle Battery
2. To Vehicle Mounted Device or UPS Battery Pack
3. White (DC+)
4. Black (DC-)
5. Green (GND)
6. 12 – 80 VDC
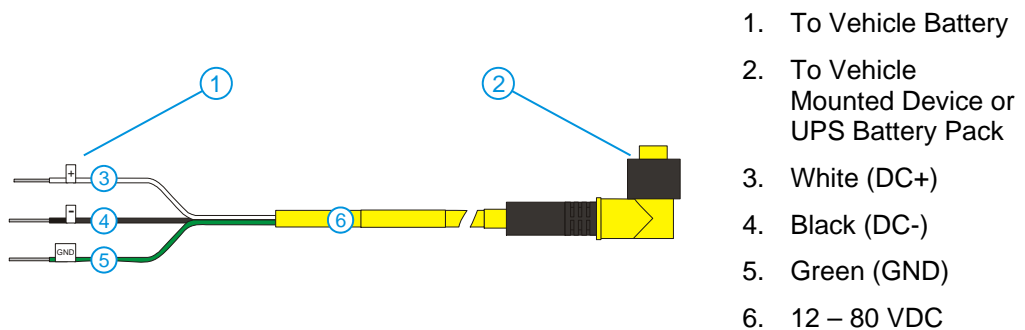
Figure 51 Vehicle Power Connection Cable (Fuse Not Shown)

1. Vehicle Electrical System
2. 10 Amp Slow Blow Fuse
3. DC +
4. DC -
5. Vehicle Chassis
6. White
7. Black
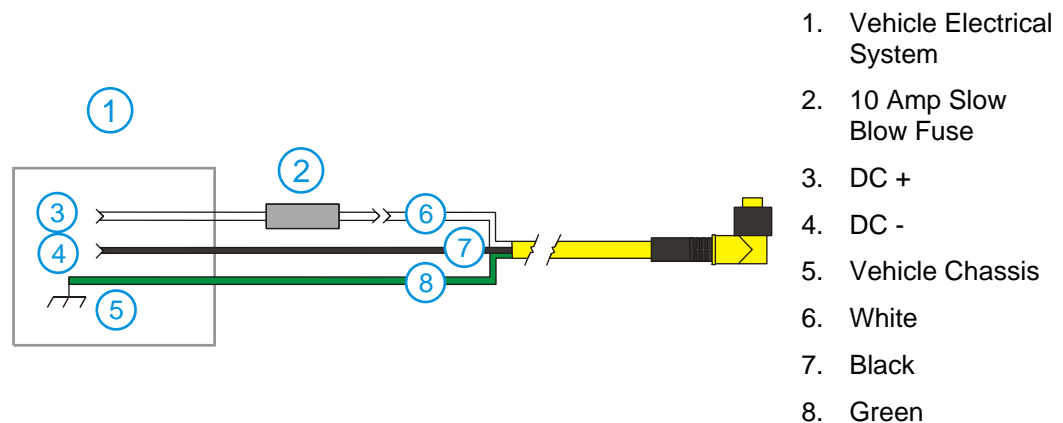8. Green

Figure 52 Connecting the Power Cable to the Vehicle

Note: Correct electrical polarity is required for safe and proper installation. Connecting the cable to the VX6 with the polarity reversed will cause the VX6's fuse to be blown. See the

following figure titled "Vehicle Connection Wiring Color Codes" for additional wire color-coding specifics.

How To: Connect Vehicle 12-80VDC Connection

---

1. The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6.

2. While observing the fuse requirements specified above, connect the power cable as close as possible to the actual battery terminals of the vehicle. When available, always connect to unswitched terminals in vehicle fuse panel, after providing proper fusing.

   *ATTENTION: **For uninterrupted power, electrical supply connections should not be made at any point after the ignition switch of the vehicle.***

3. Route the power cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature.

   Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate.

   Note: If the vehicle is equipped with a panel containing Silicon Controller Rectifiers (SCR's), avoid routing the power cable in close proximity to these devices.

   Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

   Use proper electrical and mechanical fastening means for terminating the cable. Properly sized "crimp" type electrical terminals are an accepted method of termination. Please select electrical connectors sized for use with 18AWG (1mm^2) conductors.

   Wiring color codes for LXE supplied DC input power cabling:

Vehicle Supply		Wire Color
+12 - 80VDC	(DC +)	White
Return	(DC -)	Black
Vehicle Chassis	GND	Green

Figure 53 Vehicle Connection Wiring Color Codes

4. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.

5. Refer to the following sections to complete the power connection to the VX6.

How To: Connect VX6 without a UPS Battery Pack
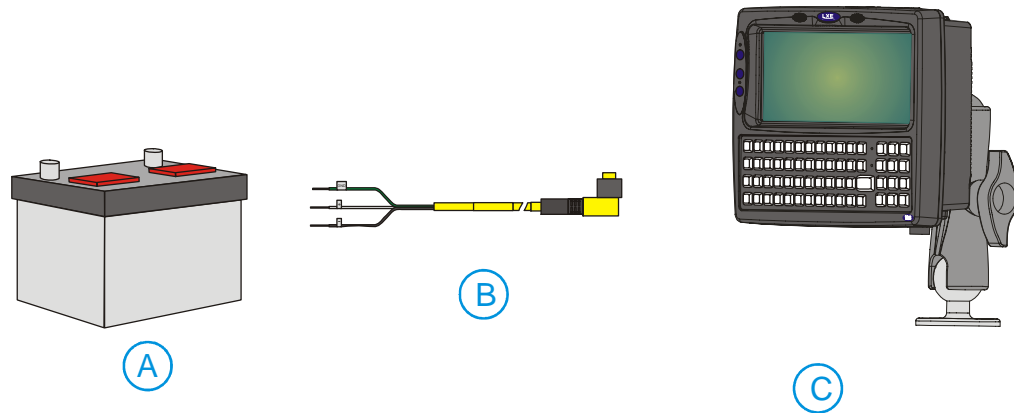
Figure 54 Direct Connection (No UPS Battery Pack)

A   Vehicle Battery

B   Vehicle Power Connection Cable

C   VX6 Computer

1.   Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".

2.   Connect the power cable to the VX6 by aligning the water-tight connector pins to the power connector on the bottom of the VX6; push down on the water-tight connector and twist it to fasten securely.

3.   Turn the VX6 on.

How To: Connect VX6 to a Integrated Mount UPS Battery Pack

Figure 55 Integrated Mount UPS Battery Pack Connection

A	Vehicle Battery
B	Vehicle Power Connection Cable
C	UPS Battery Pack
D	VX6 Computer

1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".

2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.

3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.

4. Turn the VX6 on.

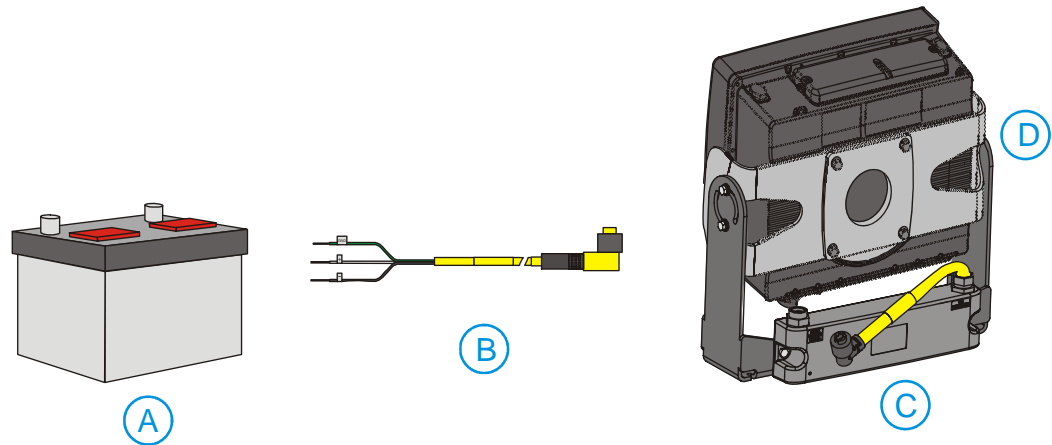**How To: Connect VX6 to a Remotely Mounted UPS Battery Pack**
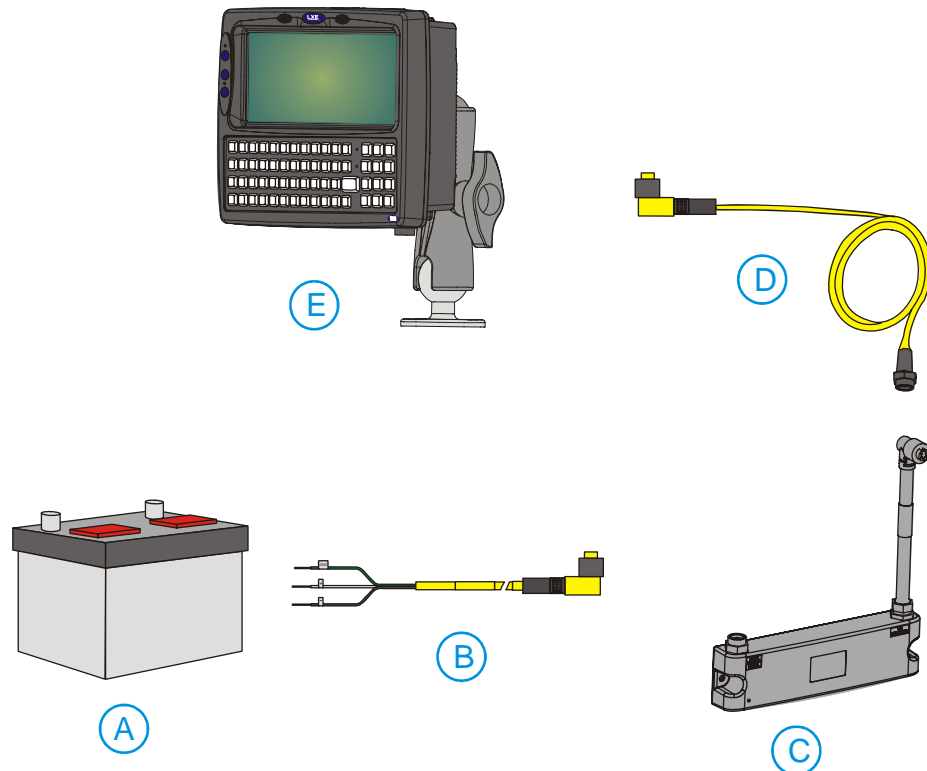
Figure 56 Remote Mount UPS Battery Pack Connection

A	Vehicle Battery
B	Vehicle Power Connection Cable
C	UPS Battery Pack
D	Extension Cable
E	VX6 Computer

1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".

2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.

3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the extension cable by aligning the water-tight connector to the input end of the extension cable; push down on the water-tight connector and twist it to fasten securely.

4. Route the extension cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature.

    Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate. Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

    Note: If the vehicle is equipped with a panel containing Silicon Controller Rectifiers

(SCR's), avoid routing the power cable in close proximity to these devices.

5. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.

6. Connect the output end of the extension cable to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.

6. Turn the VX6 on.

Power Adapter Cable

LXE offers an adapter cable (part no. 9000A077CBLPWRADPTR) to adapt certain VX1, VX2 or VX4 DC power supplies to the VX6. Please read and follow all cautions below to determine if your present power supply can be used with the VX6.
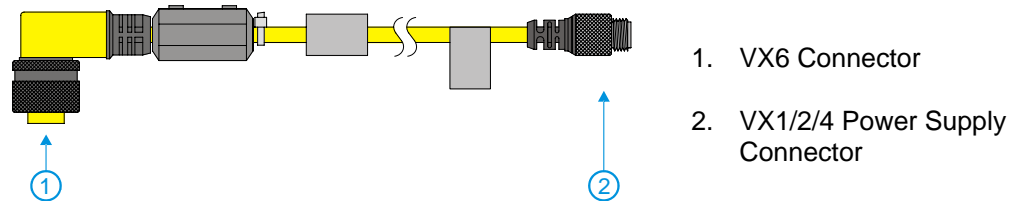
1. VX6 Connector

2. VX1/2/4 Power Supply Connector

Figure 57 Power Adapter Cable, VX1/2/4 to VX6

Caution: ⚠	This document assumes the VX1/2/4 DC power cable, if applicable, is already properly connected to your vehicle. If this is not the case, please refer to the "VX1 User's Guide", "VX2 User's Guide" or "VX4 User's Guide" for direct vehicle connection details.
Caution: ⚠	For use only with VX1/2/4 DC power cables with yellow colored cable containing 18AWG wires. Do not use this cable with VX1/2/4 DC power cables with gray colored cable containing 22AWG wires. These power cables must be replaced with a VX5/6/7 power cable.
Caution: ⚠	When a DC power cable that is eight feet or longer is in a 12V application, there may be an excessive voltage drop over the longer cable. If this occurs, a new power cable is required.
Caution: ⚠	Do not use this adapter with AC power supplies originally designed for the 1380, 1390, VX1, VX2 or VX4. These power supplies do not have sufficient power for the VX6.

Note: For more information on the 12-80V DC direct, UPS battery pack and extension cable connections please refer to the appropriate section earlier in this manual.

How To Connect Power Adapter Cable

1. The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6.

2. Attach the smaller end of the Power Adapter Cable to the VX1/2/4 power cable by aligning the water-tight connector pins to the power cable connector. Push down on the water-tight connector and twist it to fasten securely.

3. Connect the larger end of the Power Cable directly to the computer or to a UPS battery pack, as desired. Please refer to the appropriate section earlier in this manual for UPS battery pack connection details.

Fuse Replacement for the VX6

The VX6 uses a 100V, 10A time delay (slow blow), high current interrupting rating fuse that is externally accessible and user replaceable. Should it need replacement, replace with same size, rating and type of fuse – Littlefuse 0234010 or Optifuse MSC-10A (5x20mm).

1. Fuse
2. Twist in this direction to remove
3. Twist in this direction to insert
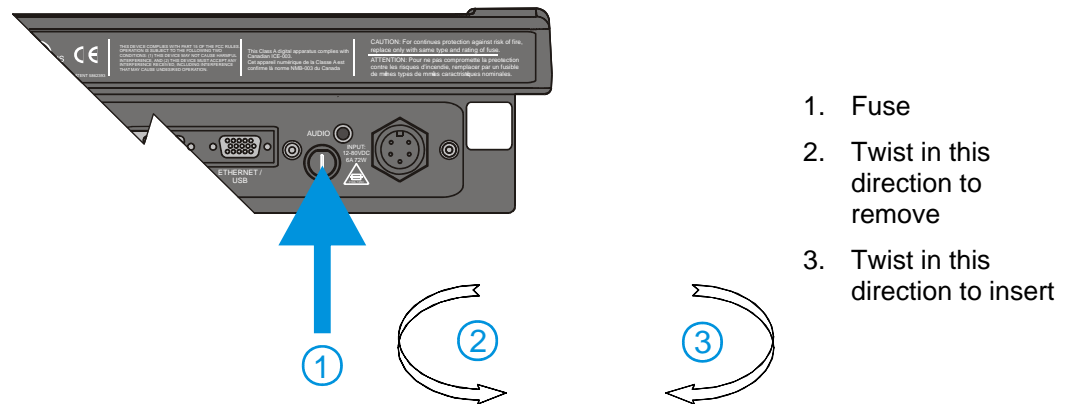
Figure 58 Fuse Replacement

1. **Turn the VX6 off and disconnect the power cable from the VX6.**

    Caution: **Fuse has voltage on it even when power is off. Always disconnect input power before changing fuse.**

2. While holding the VX6 over a level surface, push the fuse cover in and twist it one quarter turn counterclockwise. A flat head screwdriver may be used to twist the fuse cover.

3. Remove the fuse.

4. Discard the fuse and place a new fuse in the holder.

5. Push the fuse in and twist it clockwise one quarter turn.

6. Reconnect the power cable to the VX6.

Strain Relief Cable Clamps

Equipment Required: Phillips screwdriver (not supplied by LXE)

There are strain relief cable clamps secured to the back of the VX6. Use the strain relief clamps to secure audio, power, and I/O cables attached to the VX6.
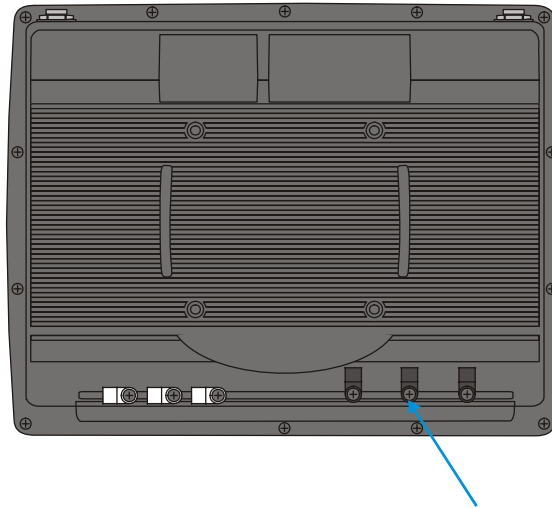
Figure 59 Strain Relief Cable Clamps

1. Remove the strain relief clamp from the back of the VX6 by turning the screw counterclockwise. Put the screw aside in a safe location.

2. Slide the strain relief clamp over the cable.

Figure 60 Slide Clamp Over Cable

3. Using a Phillips screwdriver and the screw that was removed, refasten the clamp holding the cable to the VX6. Do not stretch the cable. Leave enough slack in the cable to allow it to be connected and disconnected easily when needed.

4. Continue in this manner until all cables are secured to the VX6.

Operation

Powering On/Off

Connect the VX6 to a power source, either AC or Vehicle.

The power (on/off) button is located on the front of the VX6. The switch is sealed by a rubber membrane. The Status LED on the LXE VX6 is illuminated when the power is on:

- **Green** – VX6 is operating from vehicle or AC
- **Solid Yellow** – VX6 is operating from the UPS
- **Flashing Yellow** – VX6 is operating from the UPS, but UPS battery is critically low.

Press the power button to start the VX6. There may be slight delays while the wireless client connects to the network, re-authorization for voice-enabled applications completes, Wavelink Avalanche management of the VX6 startup completes, or Bluetooth relationships establish or re-establish. You are now ready to use the computer.

Enter data using the keyboard, touchscreen or a Serial Barcode Scanner.

Note: Always turn the computer off prior to connecting or disconnecting any power source.

Figure 61 The VX6 Power Switch

The VX6 is designed for an orderly shutdown when using the power button. An orderly shutdown first closes any open programs, and then shuts down the Windows CE operating system. DO NOT remove power from the VX6 without shutting down the VX6.

The VX6 shutdown may be initiated in any of the following ways:

- Momentarily pressing and releasing the power button (less than 5 seconds) performs an orderly shutdown.
- Pressing and holding the power button for more than five seconds forces a shutdown. Any open programs and the Windows CE operating system are shut down before power off. Use this option to shut down the VX6 when the operating system is not responding.

For more information on the shutdown process, please refer to the Windows CE help function or commercially available help guides.

Display and Touchscreen

The VX6 Display is a thin-film transistor display capable of supporting Half SVGA+ graphics modes. Display size is half screen, 800 x 320 pixels. The display covering is designed to resist stains. The touch screen allows signature capture and touch input.

The touch screen is a Resistive Panel with a scratch resistant finish that can detect touches by a stylus, and translate them into computer commands. In effect, it simulates a computer mouse. Only Delrin or plastic styluses should be used.

Note: Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.

An extra or replacement stylus may be ordered from LXE. See the "Accessories" section for the stylus part number.

Adjusting Screen Display

The color TFT display is an active source of light. The VX6 display brightness can be adjusted via the brightness control keys located on the VX6 control panel. Pressing the brightness up button increases the display brightness incrementally until maximum brightness is achieved. Likewise, pressing the brightness down button decreases the display brightness until minimum brightness is achieved. Because there are 64 incremental levels of brightness intensity, a single press of either brightness adjustment button may not be noticeable. The up or down button can be pressed and held to accelerate brightness adjustment.

Note: The 2nd functions <F4>, <F5>, <F6>, and <F7> keys have no function on the VX6.

There are no provisions for adjusting the contrast of the display. The display remains on unless Microsoft Windows CE power management is configured to turn the display off after a certain period of inactivity.

Cleaning the Display

Keep fingers and rough or sharp objects away from the display. If the glass becomes soiled or smudged, clean only with a standard household cleaner such as Windex® without vinegar or use Isopropyl Alcohol. Do not use paper towels or harsh-chemical-based cleaning fluids since they may result in damage to the glass surface. Use a clean, damp, lint-free cloth. Do not scrub optical surfaces. If possible, clean only those areas which are soiled. Lint/particulates can be removed with clean, filtered canned air.

Disabling the Touchscreen

The touchscreen can be disabled, if desired. For more information, please refer to "Disabling the Touchscreen" in the "VX6 Reference Guide".

Disabling the Touchscreen Heater

The touchscreen heater included on extended temperature VX6 models can be disabled on certain VX6's, if desired. For more information, please refer to "Disabling the Touchscreen" in the "VX6 Reference Guide".

Calibrating the Touchscreen

Although the touch screen is installed and calibrated at the factory, users may make adjustments to it. To calibrate the touchscreen, select **Start|Settings** and double tap the Stylus icon.
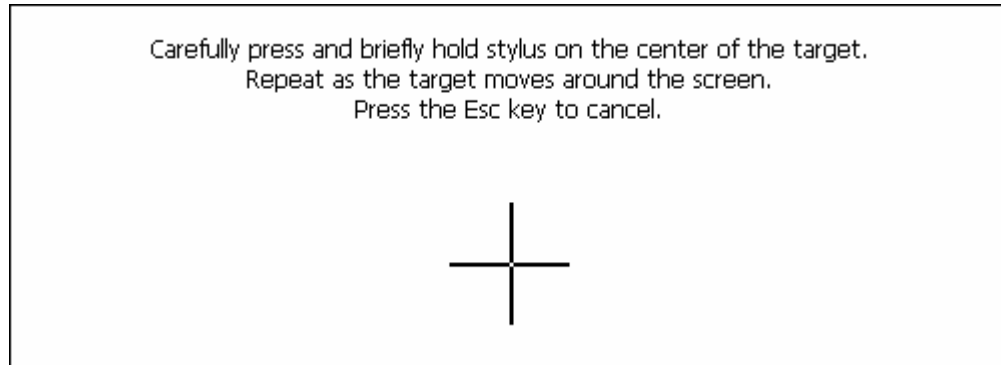
Carefully press and briefly hold stylus on the center of the target.
Repeat as the target moves around the screen.
Press the Esc key to cancel.

Figure 62 Touchscreen Calibration, Calibration Targets

The calibration utility displays a cross on the screen. Touch the center of the cross with the stylus and hold for a few seconds. Release and repeat with the next cross. After all locations have been touched, either press <Enter> or click the Calibration button.

Touchscreen Protective Film

LXE offers a replaceable touchscreen protective film to protect the touchscreen when the VX6 is used in an abrasive environment. Installation and removal instructions can be found earlier in this guide.

Touchscreen and USB Mouse

Please refer to the "VX6 Reference Guide" for information on identifying your VX6.

Platform 1 VX6's

Because the touchscreen also functions as a mouse, the pointer for on the 95-key keyboard, a USB mouse or a PS/2 mouse may not always be visible on the screen. The mouse pointer reappears when the 95-key keyboard pointer or external mouse is moved or clicked. Please see "USB Mouse" earlier in this manual for more details.

- When a USB mouse is first attached to the VX6, the mouse pointer may not be visible. However, moving or clicking the mouse causes the pointer to appear.

- When the USB mouse is unplugged, the pointer may remain visible until the touchscreen is tapped.

- If the touchscreen is used for input, the mouse pointer may disappear. However, moving or clicking the mouse or pointing device on the 95-key keyboard causes the pointer to reappear.

Platform 2 VX6's

The mouse pointer is not visible unless a USB mouse is attached.

If a mouse of any kind is attached, the mouse pointer is displayed on screen.

Adjust Speaker Volume

Microsoft Windows CE provides volume adjustment by clicking the "Volume and Sounds" icon in the Windows CE Control Panel. The volume control adjusts the built in speaker's volume.

Note: The <F8> and <F9> keys on the VX6 keyboard have no function as Windows CE controls the sound volume.

Microsoft Windows CE Event Sounds

The VX6 includes a customized sound scheme. The customized WAV files are preferable to the standard Microsoft Windows CE sounds when using the internal speakers.

Power Management

All Power Management is handled through the Microsoft Windows CE Control Panel. Since the VX6 is externally powered, the only power management configuration is for the display/display backlight and the keyboard backlight. The display, the display backlight and the keyboard backlight are turned off at the same time. The time interval can be configured using **Start** | **Settings** | **Control Panel** | **Display** | **Backlight** tab.

When enabled, the display, display backlight and keyboard backlight are turned off when the timer expires.   The timer is reset by the following primary events:

- Keypress, or
- Mouse movement, or
- Touchscreen touch

For more information on configuring Microsoft Windows CE Power Management, please refer to the VX6 Reference Guide.

Laser Barcode Scanner Warnings

- Do not look into the laser's lens.

- Do not stare directly into the laser beam.

- Do not remove the laser caution labels from the scanner.

- Do not connect the laser barcode module to any other device.

Caution: ⚠️	*Please read the caution labels.* *Avoid exposure. Laser light is emitted from the scanner's aperture.* *Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.* *The scanner uses laser light. The following labels are **representations** of caution and warning labels placed on laser scanners.*
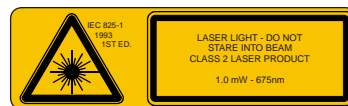
Figure 63 Caution Labels
Class II Scanner
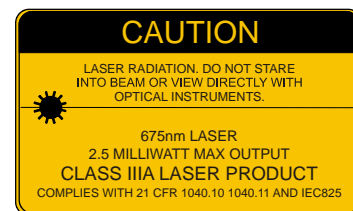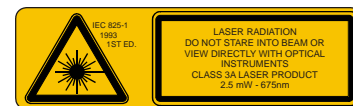
Figure 64 Caution Labels
Class IIIA Scanner

Do not pour, spray, or spill any liquid on the scanner. The Barcode Scanner contains the circuitry, scanning motor and laser. Handle with appropriate care.

Enter Data

You can enter data into the VX6 through several different methods:

- The tethered scanner connected to the COM1 serial port provides barcode data entry

- The serial ports are used to input/output data

- The keyboard provides manual entry

- The touchscreen also provides manual entry

Keyboard Entry

Refer to Appendix A "Key Maps" for specific keypresses.

The keyboard is used to manually input data that is not collected otherwise. Almost any function that a full sized computer keyboard can provide is duplicated on the VX6 keyboard but it may take a few more keystrokes to accomplish a keyed task.

Almost every key has two or three different functions. The primary alpha or numeric character is printed on the key.

For example, when the <2nd> key is selected pressing the desired second-function key produces the <2nd> character i.e. <2nd> + F1 toggles the CAPS Lock function. The specific <2nd> character is printed above the corresponding key.

Please refer to Appendix A "Key Maps" for instruction on the specific keypresses to access all PC-compatible keyboard functions.

Touchscreen Entry

Note: *This section is directed to the VX6 user. The assumption is that the unit has been configured and the touch panel calibrated by the System Administrator prior to releasing the VX6 for use.*

Note: *Always use the point of the stylus for tapping or making strokes on the display. Never use an actual pen, pencil or sharp object to write on the touch screen.*

The touchscreen input performs the same function as the mouse that is used to point to and click elements on a desk top computer. The stylus is used in the same manner as a mouse – single tap or double tap to select menu options, drag the stylus across text to select, hold the stylus down to activate slider bars, etcetera. Holding the stylus down for ½ second performs the right mouse click function.

When using a stylus, hold the stylus as if it were a pen or pencil. Touch an element on the screen with the tip of the stylus then remove the stylus from the screen. The touch screen responds to an actuation force (touch) of up to 4 oz. of pressure.

The touch screen can be used in conjunction with the keyboard and an input/output device connected to one of the VX6's serial ports.

- Touch the stylus to the field of the data entry form to receive the next data feed.

- The cursor begins to flash in the field.

- The unit is ready to accept data from either the keyboard or a device connected to a serial port.

Right Click

A right click can be simulated on the touch screen. To perform a right click, touch the touch screen with the stylus and hold it in the same location for a short time.

Tethered Scanners

The following section is directed toward a generic tethered scanner connected to the COM1 serial port on the VX6.

Aiming the Barcode Scanner

Aim the scanner *away* from you, direct it at the barcode and press the trigger to scan.

The Scan On LED (or equivalent) turns red to indicate the scanner is on.

Adjust the aim so that the thin, red laser beam covers the entire length of the barcode.

Some scanners use a laser aiming beam which then spreads into a wide beam when the scanner's Aiming Beam Timer expires. Place the aiming beam in the center of the barcode and hold the scanner steady until the beam spreads and the barcode is decoded. Beeps may be heard as the barcode is decoded. Refer to the barcode scanner user's guide for information on the Aiming Beam Timer and beep sequences, and the TE reference guide for host generated beep sequences.

The scan beam must cross every bar and space on the barcode.

Correct Scan   Incorrect Scan   Incorrect Scan

Figure 65 Scan Beam

Distance from Label

Large barcodes can be scanned at the maximum distance. Hold the scanner closer to small barcodes (or with bars that are very close together).

Note: Do not position the scanner exactly perpendicular to the barcode being scanned. In this position, light can bounce back into the scanner's exit window, and possibly prevent a successful decode.

Successful Scan

When the scan is successful, the scanner's good scan indicator illuminates, the scan on indicator is off, and the currently running application may produce a distinctive audible tone.

Unsuccessful Scan

When the scan is unsuccessful, the scan on indicator remains illuminated and the currently running application may produce distinctive audible tones. Check the following:

- Is the scanner programmed for the barcode being read?
- Check the barcode for marks or physical damage e.g. ripped label, missing section, etc.
- Try scanning test symbols of the same code type at different distances and angles.

Bluetooth Scanners

Bluetooth scanners are paired to the VX6 wirelessly using the VX6 Bluetooth wireless client.

See previous sections on Bluetooth for more information.

Only LXE Bluetooth scanners and LXE Bluetooth printers are supported by LXE. See *Accessories*.

Voice Data

Data is entered into the VX6 by speaking into the headset's microphone when prompted. Please contact your System Administrator if assistance is needed with the voice software.

Bluetooth Devices

Assumption: The System Administrator has Discovered and Paired targeted Bluetooth devices for each VX6. The System Administrator has also enabled / disabled Bluetooth settings and assigned a Computer Friendly Name for each VX6. See the *VX6 Reference Guide* for information and instruction on the VX6, Bluetooth control panel applet and supported LXE Bluetooth printers and scanners.

The Bluetooth taskbar Icon state and Bluetooth scanner LED states change as Bluetooth devices are discovered, pair, connect and disconnect. There may be audible or visual signals as paired devices re-connect with the VX6. Only LXE printers or scanners are recognized and displayed in the Bluetooth panel. All other Bluetooth devices are ignored. (see *VX6 Reference Guide* for details).

Taskbar Icon	Legend
	Bluetooth module is connected to one or more of the targeted Bluetooth device(s).
	VX6 is not connected to any Bluetooth device. VX6 is ready to connect with any Bluetooth device. VX6 is out of range of all paired Bluetooth device(s). Connection is inactive.

Note: *When an active paired device, not the VX6, enters Suspend Mode, is turned Off or leaves the VX6 Bluetooth scan range, the Bluetooth connection between the linked device and the VX6 is lost. There may be audible or visual signals as paired devices disconnect from the VX6.*

Notes

- The VX6 does not have a Bluetooth managed LED.
- The LED on the Bluetooth scanner illuminates during a scanning operation; there is no Scan LED on the VX6.
- Barcode data captured by the Bluetooth scanner is manipulated by the settings in the VX6 Scanner Properties control panel applet.
- Multiple beeps may be heard during a barcode scan using the Bluetooth scanner; beeps from the Bluetooth scanner as the barcode data is accepted/rejected, and other beeps from the VX6 during final barcode data manipulation.

See *Accessories* for supported Bluetooth printers and scanners.

AppLock, if installed, does not stop the end-user from using Bluetooth, nor does it stop authorized Bluetooth devices from pairing with the VX6 while AppLock is in control.
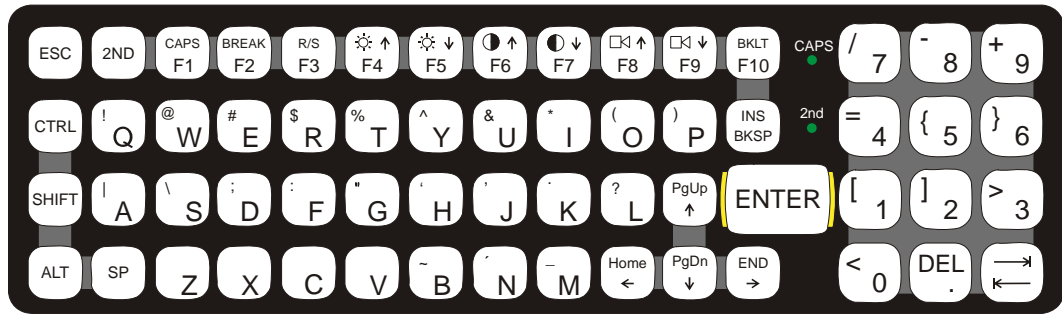
Appendix A Key Maps

The VX6 Keypad

Figure 66 VX6 QWERTY Keyboard

The key map table that follows lists the commands used for the VX6. Note that since the VX6 uses a Microsoft Windows CE operating system, no DOS Terminal Emulation keypress sequences are provided.

Key Map 101-Key Equivalencies

When using a sequence of keys that includes the $<2^{nd}>$ key, press the $<2^{nd}>$ key first then the rest of the key sequence.

Note: The VX6 keyboard does not have a NumLock indicator. NumLock is enabled by default. The warmboot behavior of NumLock can be configured. Please refer to the "VX6 Reference Guide". When NumLock is off, only the numeric 0 through 9 and DOT keys are affected. All other keymaps are unchanged.

When the VX6 boots, the default condition of Caps (or CapsLock) is Off. The Caps (or CapsLock) condition can be set toggled with a <2nd>+<F1> key sequence. The CAPS LED is illuminated when CapsLock is On.

To get this key	Press These Keys and Then					Press this key
	2nd	Shift	Ctrl	Alt	CapsLock	
Suspend/Resume [1]	x					F3
2nd						2nd
Shift						Shift
Alt						Alt
Ctrl						Ctrl
Esc						Esc

---

[1]   The Suspend/Resume key has no function as Windows Power Management controls the power management modes.

To get this key	Press These Keys and Then					Press this key
	2nd	Shift	Ctrl	Alt	CapsLock	
Space						Sp
Enter						Enter
Enter (numeric)	x					Enter
CapsLock (Toggle)	x					F1
Back Space						Ins/BkSp
Tab						Tab
BackTab	x					Tab
Ctrl-Break [2]	x		x			F2
Pause	x	x				F3
Up Arrow						Up Arrow
Down Arrow						Down Arrow
Right Arrow						Right Arrow
Left Arrow						Left Arrow
Insert	x					Ins/BkSp
Delete (numeric)	x					DEL
Home	x					Left Arrow
End	x					Right Arrow
Page Up	x					Up Arrow
Page Down	x					Down Arrow
Right Shift	x	x				F7
Right Alt	x	x				F8
Right Ctrl	x	x				F9
ScrollLock	x	x				F4
NumLock	x	x				F10
F1						F1
F2						F2
F3						F3
F4						F4
F5						F5
F6						F6
F7						F7
F8						F8
F9						F9
F10						F10
F11	x	x				F1
F12	x	x				F2
a						A
b						B

---

[2]   Press <Ctrl> then <2nd> then <F2> to produce Ctrl-Break.

To get this key	Press These Keys and Then					Press this key
	2nd	Shift	Ctrl	Alt	CapsLock	
c						C
d						D
e						E
f						F
g						G
h						H
i						I
j						J
k						K
l						L
m						M
n						N
o						O
p						P
q						Q
r						R
s						S
t						T
u						U
v						V
w						W
x						X
y						Y
z						Z
A					x	A
B					x	B
C					x	C
D					x	D
E					x	E
F					x	F
G					x	G
H					x	H
I					x	I
J					x	J
K					x	K
L					x	L
M					x	M
N					x	N
O					x	O
P					x	P

To get this key	Press These Keys and Then					Press this key
	2nd	Shift	Ctrl	Alt	CapsLock	
Q					x	Q
R					x	R
S					x	S
T					x	T
U					x	U
V					x	V
W					x	W
X					x	X
Y					x	Y
Z					x	Z
1						1
2						2
3						3
4						4
5						5
6						6
7						7
8						8
9						9
0						0
DOT						DOT
<	x					0
[	x					1
]	x					2
>	x					3
=	x					4
{	x					5
}	x					6
/ (numeric)	x		x			7
/ (alpha)	x					7
- (numeric)	x		x			8
- (alpha)	x					8
+ (numeric)	x		x			9
+ (alpha)	x					9
* (numeric)	x					I
* (alpha)	x		x			I
: (colon)	x					D
; (semicolon)	x					F
?	x					L
`	x					N

To get this key	Press These Keys and Then					Press this key
	2nd	Shift	Ctrl	Alt	CapsLock	
_ (underscore)	x					M
, (comma)	x					J
' (apostrophe)	x					H
~ (tilde)	x					B
\	x					S
|	x					A
"	x					G
!	x					Q
@	x					W
#	x					E
$	x					R
%	x					T
^	x					Y
&	x					U
(	x					O
)	x					P

IBM 3270 Keypad Overlay

Figure 67 IBM 3270 Specific Keypad

The 60-key keypad is available with an IBM 3270 overlay designed to allow the user to enter terminal emulator commands when running LXE's RFTerm™ program. When running this program please refer to the following reference guide for equivalent keys and keypress sequences:

- RFTerm™ Reference Guide

IBM 5250 Keypad Overlay

Figure 68 IBM 5250 Specific Keypad

The 60-key keypad is available with an IBM 5250 overlay designed to allow the user to enter terminal emulator commands when running LXE's RFTerm™ program. When running this program please refer to the following reference guide for equivalent keys and keypress sequences:

- RFTerm™ Reference Guide

Appendix B Regulatory Notices and Safety Information

FCC Information:

This device complies with FCC Rules, part 15. Operation is subject to the following conditions:

1. This device may not cause harmful interference
    and
2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning: Changes or modifications to this device not expressly approved by LXE, Inc., could void the user's authority to operate this equipment.

EMC Directive Requirements:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Industry Canada:

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Règlement sur le brouillage radioélectrique édits par le ministère des Communications du Canada.

声 明

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Notice:

The long term characteristics or the possible physiological effects of radio frequency electromagnetic fields have not been investigated by UL.

RF Safety Notice:

Caution: *This device is intended to transmit RF energy. For protection against RF exposure to humans and in accordance with FCC rules and Industry Canada rules, this transmitter should be installed such that a minimum separation distance of at least 20 cm (7.8 in.) is maintained between the antenna and the general population. This device is not to be co-located with other transmitters.*

Important: This symbol is placed on the product to remind users to dispose of Waste Electrical and Electronic Equipment (WEEE) appropriately, per Directive 2002-96-EC. In most areas, this product can be recycled, reclaimed and re-used when properly discarded. Do not discard labeled units with trash. For information about proper disposal, contact LXE through your local sales representative, or visit www.lxe.com.

R&TTE Directive Requirements (Applies only to Equipment operated within the EU/EFTA)

Information to User
A label on the exterior of the device should resemble one of the labels shown below (the label contains the LXE part number of the installed radio card). The labels shown below and affixed to the device, identify where the device may be used and where its use is restricted. Use of a device is prohibited in countries not listed below or otherwise identified by the label. (May or may not include the 0560 Notified Body No.)

CE 0560 ⊙ ← LXE Part Number Use of this device is permitted in EU/EFTA.	CE 0560 ⊙ ← LXE Part Number Use of this device is permitted in EU/EFTA except for France.

Complies with IDA Standards DA103458	Republic of Singapore - LXE Dealer License Number DA103458 complies with IDA Standards.

Approvals

Product	EMI / EMC Standards	Safety Standards
VX6	FCC Part 15 Subpart B, Class A EN 55022 : 1998 Class A EN 55024 : 1998	EN 60950:2000 3rd Ed. UL 60950:2000 3rd Ed. CSA C22.2 No. 60950 IEC60950:1999 3rd Ed.

Transceiver	RF Standards	Notes
6726 (LXE Model No.) LXE 6700 System 2.4GHz Type II PCMCIA Card	FCC Part 15, Subpart C FCC Part 2 EN 300 328 EN 300 826 IC-RSS 139 IC-RSS 102	Unlicensed Operation Unlicensed Operation Requires License for Outdoor Use
6816 (LXE Model No.) LXE 2.4GHz Type II PCMCIA Card	FCC Part 15, Subpart C FCC Part 2 EN 300 328 EN 300 826 IC-RSS 139 IC-RSS 102	Unlicensed Operation Unlicensed Operation Requires License for Outdoor Use
4830 (LXE Model No.) LXE 2.4GHz CF with Type II PCMCIA Adapter Card	FCC Part 15.247, Subpart C FCC Bulletin OET-65 EN 300 328 IC-RSS 210 IC-RSS 102	Unlicensed Operation Unlicensed Operation Requires License for Outdoor Use

LXE Transceiver LXE 6726 Declaration of Conformity

DECLARATION OF CONFORMITY

according to Directives:

1999/5/EC	Radio Equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity
93/68/EEC	**CE Marking Directive**

Type of Equipment:	Direct Sequence 2.4 GHz Wireless LAN Card
Brand Name or Trademark:	LXE
Type Designation:	LXE 6726
Manufacturer:	LXE Inc.
Address:	125 Technology Parkway Norcross, GA 30092-2993 USA
Year of Manufacturer:	2001

The following harmonized European Standards, technical specifications, or other normative documents have been applied:

EMC:

EN 301 489-1: 07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-17 07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Wideband data and HIPERLAN equipment

Radio:

EN 300 328-1 and -2: 2000-7	Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques

Safety:

EN 60950-2: 1992 + A1..A4	Safety of information technology equipment, including electrical business equipment

We, LXE Inc., declare that the equipment specified above complies with all Essential Health and Safety Requirements of the above Directives and Standards, as amended.

Place	LXE Inc., Norcross GA USA
Date of issue	24 June 2004

C. Binnom Jr.
RF Approvals Engineer

LXE Inc. 125 Technology Parkway   Norcross, GA 30092-2993 USA
ph. 770/447-4224   fax 770/447-6928

Annex to DoC for LXE 6726
With regard to the use of external antennas

The LXE 6726 can be equipped with external antennas. The antennas listed have been evaluated with the LXE 6726 pursuant to ETSI EN 300 328, and therefore meet the definition of 'dedicated antenna' per ERC/REC 70-03 Appendix 1 Table 3; thus the requirement set forth in ERC/REC 70-03 , Annex 3 are met by the LXE model 6726 transceiver.

Dedicated Antennas for use with LXE 6726

LXE P/N	Antenna Gain	Radio Power Level	Antenna Description
153180-0001	0 dBi	17 dBm	Omni, for LXE VX-series computers
155522-0001	0 dBi	17 dBm	Omni, for LXE MX1-series computers
155814-0001	0 dBi	17 dBm	Patch, for LXE MX1-series computers
157368-0001	0 dBi	17 dBm	Patch, for LXE MX3-series computers
157399-0001	0 dBi	17 dBm	Omni, for LXE MX5-series computers
99004-0027	0 dBi	17 dBm	3 dB Omni, for LXE model 2325 computer
DAC2450CT1 (Toko P/N)	2.15 dBi	17 dBm	Omni, for LXE MX2-series computers
153179-0001	0 dBi	17 dBm	Omni, Access Point Antenna
153325-0001	0 dBi	17 dBm	Omni, Access Point Antenna
480424-0400	0 dBi	17 dBm	Omni, Access Point Antenna
153599-0001	3 dBi	17 dBm	Omni, Access Point Antenna
153600-0001	3 dBi	17 dBm	Omni, Access Point Antenna
480424-3404	3 dBi	17 dBm	Omni, Access Point Antenna
155846-0001	3 dBi	17 dBm	Spire® Access Point Antenna
155845-0001	6 dBi	13 dBm	Spire® Access Point Antenna
155311-0001	6 dBi	13 dBm	Patch, Access Point Antenna
480424-3411	6 dBi	13 dBm	Patch, Access Point Antenna
480424-3402	6 dBi	13 dBm	Patch, Access Point Antenna
481246-2400	6 dBi	13 dBm	Patch, Access Point Antenna
480424-1702	6 dBi	13 dBm	180° Directional, Access Point Antenna
480424-0411	9 dBi	7 dBm	Omni, Access Point Antenna
480429-2703	12 dBi	7 dBm	90° Directional, Access Point Antenna
480429-0411	12 dBi	7 dBm	Omni, Access Point Antenna
460601-3020	15 dBi	3 dBm	YAGI, Access Point Antenna
460602-3020	15 dBi	3 dBm	YAGI, Access Point Antenna
480429-0415	15 dBi	3 dBm	Omni, Access Point Antenna

C. Binnom Jr.
RF Approvals Engineer
24 June 2004

LXE Inc. 125 Technology Parkway   Norcross, GA 30092-2993 USA
ph. 770/447-4224   fax 770/447-6928

LXE Transceiver LXE 6816 Declaration of Conformity

DECLARATION OF CONFORMITY	
according to:	
the R&TTE Directive;	**99/5/EEC**
The EMC Directive;	**89/336/EEC**
The Low Voltage Directive;	**73/23/EEC**
and the Marking Directive;	**93/68/EEC**

Type of Equipment:	DSSS 2.4GHz WLAN Radio Card
Brand Name or Trademark:	LXE
Type Designation:	6816
Manufacturer:	LXE Inc.
Address:	125 Technology Parkway Norcross, GA 30092 USA

The following harmonized European Norms have been applied:

EMC Standards:

EN 301 489-1: 07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-17:07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Wideband data and HIPERLAN equipment
EN 55022: 1998	Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Radio Standards:

EN 300 328-1 and -2: 2000-7	Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques

Safety Standard:

EN60950-1: 2001	Safety of information technology equipment, including electrical business equipment

The product carries the CE Mark:

$$C\epsilon \;\; \textcircled{!}$$

We, LXE Inc., declare that the equipment specified above complies with all Essential Health and Safety Requirements of the above Directives and Standards, as amended.

Date of issue: June 18, 2003

Cyril A. Binnom Jr.
Regulatory Engineer

LXE Inc. 125 Technology Parkway   Norcross, GA 30092-2993 USA
ph. 770/447-4224   fax 770/447-6928

Annex to DoC for LXE 6816

With regard to the use of external antennas

The LXE 6816 can be equipped with external antennas. The antennas listed have been assessed with the LXE 6816 pursuant to EN 300 328, and therefore meet the definition of 'dedicated antenna'. The table below lists the maximum output power setting for the radio module in order to result in a total EIRP of 100mW or less. Any combination of output power and a specific type of antenna resulting in an EIRP greater than 100mW is illegal for use throughout the Community and is outside the scope of this DoC. Antennas not listed below are also outside the scope of this DoC.

Dedicated Antennas for use with LXE 6816

LXE Antenna Part Number	LXE Model Number	Antenna Gain	Max Radio Power Level	Antenna Description
153180-0001	N/A	2.2 dBi	17 dBm	Cushcraft Omni Antenna
155846-0001	6000A279ANT3SPIREL 6000A280ANT3SPIRER 6000A283ANT3INDSPR	3 dBi	17 dBm	Spire® Omni Antenna
155845-0001	6000A277ANT6SPIREL 6000A278ANT6SPIRER 6000A282ANT3INDSPR	6 dBi	13 dBm	Spire® Omni Antenna
480424-0411	N/A	9 dBi	11 dbm	Mobile Mark Omni Antenna
155104-0001	N/A	0 dbi	20 dbm	LXE Omni
154591-0001	N/A	0 dbi	20 dbm	LXE Patch
Toko DAC2450CT1	N/A	0 dbi	20 dbm	LXE Omni
157368-0001	N/A	0 dbi	20 dbm	LXE Omni
158586-0001	N/A	0 dbi	20 dbm	LXE Omni
158399-0001	N/A	0 dbi	20 dbm	LXE Omni

Cyril A. Binnom Jr.
Regulatory Engineer
18 June 2003

LXE Transceiver LXE 4830 Declaration of Conformity

DECLARATION OF CONFORMITY

according to Directives:

1999/5/EC	**Radio Equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity**
93/68/EEC	**CE Marking Directive**

Type of Equipment:	Direct Sequence 2.4 GHz Wireless LAN Card
Brand Name or Trademark:	LXE
Type Designation:	LXE 4830
Manufacturer:	LXE Inc.
Address:	125 Technology Parkway
	Norcross, GA 30092-2993 USA
Year of Manufacturer:	2006

The following harmonized European Standards, technical specifications, or other normative documents have been applied:

EMC:

EN 301 489-1: 07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301-489-17 07-2000	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Wideband data and HIPERLAN equipment

Radio:

EN 300 328-1 and -2: 2000-7	Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques

Safety:

EN 60950-1:2001	Safety of information technology equipment, including electrical business equipment

We, LXE Inc., declare that the equipment specified above complies with all Essential Health
and Safety Requirements of the above Directives and Standards, as amended.

Place: LXE Inc., Norcross GA USA   C. Binnom Jr.

                                                                                     RF Approvals Engineer

Date of issue: 23 October 2006

LXE Inc. 125 Technology Parkway   Norcross, GA 30092-2993 USA

ph. 770/447-4224   fax 770/447-6928

Annex to DoC for LXE 4830

With regard to the use of external antennas

The LXE 4830 can be equipped with external antennas. The antennas listed have been evaluated with the LXE 4830 pursuant to EN 300 328, and therefore meet the definition of 'dedicated antenna' per ERC/REC 70-03 Appendix 1 Table 3; thus the requirement set forth in ERC/REC 70-03 , Annex 3 are met by the LXE model 4830 transceiver.

Dedicated Antennas for use with LXE 4830

LXE P/N	Antenna Gain	Radio Power Level	Antenna Description
153180-0001	2.2 dBi	15.8 dBm	Omni, for LXE VX-series computers
160952-0001	0 dBi	15.8 dBm	Omni, for LXE MX3-series computers
158399-0001	0 dBi	15.8 dBm	Omni, for LXE MX5-series computers
159900-0001	0 dBi	15.8 dBm	Omni, for LXE MX7-series computers
160019-0001	0 dBi	15.8 dBm	Omni, for LXE VX-series computers
160501-0001	0 dBi	15.8 dBm	Omni, for LXE HX1-series computers
161029-0001	0 dbi	15.8 dBm	Omni, for LXE RX2-series computers

C. Binnom Jr.
RF Approvals Engineer
23 October 2006

LXE Inc. 125 Technology Parkway   Norcross, GA 30092-2993 USA
ph. 770/447-4224   fax 770/447-6928

Lithium Battery Safety Statement

Caution:
Lithium battery inside. Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by battery manufacturer. (US)

Attention:
Contient une pile de lithium. Risque d'explosion dans le cas où la pile ne serait pas correctement remplacée. Remplacer uniquement avec une pile semblable ou equivalente au type de pile recommandé par le fabricant. (FR)

Forsigtig:
Indeholder lithiumbattterier. Risiko for eksplosion, hvis batteriet udskiftes forkert. Må kun udskiftes med samme eller tilsvarende type, som anbefalet af fabikanten. (DK)

Varoitus:
Tämä tuote käyttää laservaloa. Skannerissa on jokin seuraavista tarroista. Lue Huomio-kohta. (FI)

Vorsicht:
Enthält Lithium-Batterie. Bei unsachgemäßem Ersatz besteht Explosionsgefahr. Nur durch gleichen oder vom Hersteller empfohlenen Typ ersetzen. (DE)

Attenzione:
Batteria al litio. Pericolo di esplosione qualora la batteria venga sostituita in maniera scorretta. Sostituire solo con lo stesso tipo o equivalente consigliato per il fabbricante. (IT)

Atenção:
Contém pilha de lítio. Há perigo de explosão no caso de uma substituição incorreta. Substitua somente pelo mesmo tipo, ou equivalente, recomendado pelo fabricante. (PT)

Varning:
Innehåller litiumbatteri. Fara för explosion om batteriet är felaktigt placerat eller av fel typ. Använd endast samma eller motsvarande typ batterier rekommenderade av tillverkaren. (SE)

Advarsel:
Innmontert Lithium batteri. Eksplosjonsfare ved feil montering av batteri. Benytt kun batteri anbefalt av produsent. (NO)

Cuidado:
Pila de litio adentro. Peligro de explosión si la pila se reemplaza incorrectamente. Reemplace solamente con el mismo tipo o equivalente recomendado por el fabricante. (ES)

Oppassen:
Bevat Lithium-batterij. Incorrrecte plaatsing van batterij kan leiden tot explosiegevaar. Alleen vervangen door hetzelfde of door fabrikant aanbevolen gelijkwaardig type. (NL)

Lithium Battery Safety Statement

Προσοχή: Υπάρχει μπαταρία από λίθιο εσωτερικά. Υπάρχει κίνδυνος έκρηξης εάν η μπαταρία αντικατασταθεί με λανθασμένο τρόπο. Αντικαταστήστε μόνο με τον ίδιο ή ισοδύναμο τύπο που συνιστάται από τον κατασκευαστή. (GR)	**주의:** 리튬 배터리 내부. 배터리가 잘못 설치되었을 경우 폭발의 위험이 있습니다. 동일한 배터리, 또는 배터리 제조업체가 권장하는 배터리로 교체하십시오. (KR)
注意: リチウム電池が入っています。間違った種類の電池を使用すると、破裂する恐れがあります。同じ電池、または電池製造元が推奨する同等の電池を使用してください。 (JP)	**小心:** 内装锂电池。如电池更换不当，则有发生爆炸的危险。只能用电池制造商推荐的相同或同等电池进行更换。 (CN)
Dikkat: İçinde lityum bataryası bulunur. Bataryanın yanlış değiştirilmesi patlama tehlikesi yaratır. Aynısıyla veya üreticinin önerdiği eşdeğer tiple değiştirin. (TR)	

Legend:

Chinese	CN	Italian	IT
Danish	DK	Japanese	JP
Dutch	NL	Korean	KR
English	US	Norwegian	NO
Finnish	FI	Portuguese	PT
French	FR	Spanish	ES
German	DE	Swedish	SE
Greek	GR	Turkish	TR

A/C Power Supply Safety Statement – VX6
Output Rated 12 – 80 VDC, Minimum 75W.

The LXE-approved AC Power Adapter is only intended for use in a 25ºC (77ºF) maximum ambient temperature environment.

Optional A/C Power Supply:
Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated as stated at the top of this page. (US)

Alimentation c.a. optionnelle:
Hors de l'Amérique du Nord, cette unité est conçue pour être utilisée avec une alimentation ITE certifiée CEI de sortie nominale indiquée au haut de cette page. (FR)

Valgfrit vekselstrømforsygning
Udenfor Nord Amerika er denne enhed udstattet med en IEC (international elektronisk Kommission) udfærdiget med en ITE strømforsygning med strømudgang som fastslået på denne sides begyndelse. (DK)

Vaihtoehtoinen vaihtovirran syöttölaite:
Pohjois-Amerikan ulkopuolella tämä laite on tarkoitettu käytettäväksi sellaisen IEC:n sertifioiman ITE-tehonsyöttölaitteen kanssa, jonka antoteho on tämän sivun yläosassa esitetyn mukainen. (FI)

Optionales Netzteil (Wechselstrom)
Außerhalb Nordamerikas sollte diese Einheit über ein der IEC-Norm entsprechendes ITE-Netzteil gespeist werden, und zwar mit einer wie oben auf dieser Seite genannten Ausspeisung. (DE)

Προαιρετική Τροφοδοσία Συνεχούς Ρεύματος
Εκτός Β. Αμερικής, η μονάδα αυτή προορίζεται για χρήση με ένα τροφοδοτικό ITE πιστοποιημένο κατά IEC με ονομαστική ισχύ όπως δηλώνεται στην αρχή της σελίδας. (GR)

Alimentazione opzionale a corrente alternata:
Al di fuori dei paesi dell'America del nord, l'unità deve essere impiegata con un dispositivo d'alimentazione per attrezzature informatiche approvato dalla IEC la cui potenza nominale sia pari a quella indicata all'inizio della pagina. (IT)

Vekselstrømforsyning (ekstrautstyr):
Utenfor Nord-Amerika skal dette produktet brukes med en IEC-sertifisert ITE-strømforsyning med klassifisert effekt som angitt øverst på denne siden. (NO)

Fornecimento opcional de CA:
Fora dos EUA, esta unidade destina-se a ser usada com dispositivos de fornecimento de corrente ITE com certificação IEC, com a capacidade indicada no topo desta página. (PT)

Suministro optativo de corriente alterna
Fuera de América del Norte, esta unidad se debe utilizar con un alimentador ITE homologado por la IEC (comisión electrotécnica internacional) con una salida que tenga la calificación que figura en la parte superior de esta página. (ES)

Valfri A/C Strömförsörjning
Utanför Nordamerika är det meningen att denna enheten används med en IEC-certifierad ITE-strömförsörjare med den uteffekt som anges längst uppe på den här sidan. (SE)

İsteğe Bağlı A/C Güç Kaynağı:
Kuzey Amerika dışında, bu ünite, çıkış sınıflandırması bu sayfanın başında belirtilen IEC sertifikalı bir ITE güç kaynağı ile birlikte kullanılmak üzere tasarlanmıştır. (TR)
Updated 10/01/2001
Legend: Danish – DK; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.

⚠ **Vehicle Power Supply Connection Safety Statement** ⚠

Vehicle Power Supply Connection:
If the supply connection is made directly to the battery, a 10A slow-blow fuse should be installed in the positive lead within 5 inches (12.7 cm.) of the battery positive (+) terminal. (US)

Raccordement de l'alimentation du véhicule
Si l'alimentation est raccordée directement à la batterie, un fusible à action retardée de 10A doit être installé sur le câble positif à moins de 12,7 cm de la borne positive (+) de la batterie. (FR)

EL forsyning af køretøjet.
Er forsyningsforbindelsen direkte tilknyttet til batteriet og og tilsluttet til den positive part indenfor 12,7 cm (+ delen). vil der være en langsom tændelse af 10 ampere. (DK)

Kytkentä ajoneuvon virtalähteeseen
Jos virtaa otetaan suoraan akusta, 10 ampeerin hidas sulake on asennettava positiiviseen johtoon enintään 12 cm:n etäisyydelle akun positiivisesta (+) navasta. (FI)

Anschluss an Fahrzeugbatterie
Bei direktem Anschluss an die Fahrzeugbatterie sollte eine träge 10A-Sicherung in die positive Leitung zwischengeschaltet werden, und zwar nicht weiter als ca. 13 cm von der positiven (+) Batterieklemme entfernt. (DE)

Σύνδεση Τροφοδοτικού Ισχύος Οχήματος
Αν η σύνδεση του τροφοδοτικού γίνει κατευθείαν στη μπαταρία, μια ασφάλεια βραδείας τήξης των 10A θα πρέπει να τοποθετηθεί στο θετικό καλώδιο εντός 5 ιντσών (12,7 εκ.) του θετικού (+) ακροδέκτη της μπαταρίας. (GR)

Collegamento dell'alimentazione del veicolo
Se il collegamento dell'alimentazione viene stabilito direttamente con la batteria, è necessario installare un fusibile ad azione lenta da 10 A nel conduttore positivo a meno di 5 in. (12,7 cm) dal terminale positivo (+) della batteria. (IT)

Tilkople strømforsyningen til kjøretøyet
Hvis strømforsyningen koples direkte til batteriet, skal det installeres en 10 A treg sikring i den positive ledningen innen 12,7 cm fra plusspolen (+) på batteriet. (NO)

Ligação do fornecimento de corrente do veículo
Se a ligação de fornecimento de corrente for ligada directamente à bateria, deve instalar-se um fusível de 10A no terminal positivo, a 12,7 cm. do terminal positivo (+) da bateria. (PT)

Conexión de suministro eléctrico para el vehículo
Si el suministro eléctrico se proporciona directamente a la batería, se debe instalar un fusible de retardo de 10 A en el conductor positivo, como máximo a 12,7 cm (5 pulgadas) del terminal positivo (+). (ES)

Fordonets strömförsörjningskoppling
Om strömkopplingen görs direkt till batteriet, måste en 10A-säkring installeras i den positivt laddade ledningen inom 12.7 cm från batteriets pluspol (+). (SE)

Taşıt Güç Kaynağı Bağlantısı
Kaynak bağlantısı doğrudan aküye yapılırsa, pozitif bağlantı kablosu üzerinde akünün pozitif (+) kutbuna 12.7 cm mesafede 10A'lık yavaş atan bir sigorta monte edilmelidir. (TR)

Legend: Danish – DK; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.

Updated 02/10/2004

Revision History

Revision A, Initial Release: November 2004

Revision B: August 2005

Section	Explanation
Cover pages	Updated LXE logo and date.
Accessories	Updated accessories listing.
Introduction	Added internal antenna to VX6 option listing.
Components	Added note on internal antenna.
Connect Antenna	Revised to include "External Antenna", "Remote Vehicle Antenna Mount" and "internal Antenna" sections.
Disabling the Touchscreen Heater	Added new section.
Touchscreen and Mouse	Revised section.

Revision C: October 2005

Section	Explanation
Notices	Added WEEE statement.
Accessories	Updated accessories listing.
Installation	Updated section for RAM clamp mount installation.
Appendix B – Regulatory Notices and Safety Information	Added Hungary to R&TTE Directive Requirements. Added WEEE statement. Added temperature statement to A/C Power Supply Safety Statement.

Revision D: August 2006

Section	Explanation
Entire Manual	Updated images as necessary to reflect the 2005 LXE logo.
Notices	Updated copyrights and trademarks.
Introduction	Revised section
Accessories	Updated accessories list.
PCMCIA, ATA and SD Slots	Revised section.
AppLock and the VX6	Added new section.
Custom Key Maps	Revised section.
Step 2 – Attach RAM Mount Ball to the VX6	Added caution statement.
Appendix B – Regulatory Notices and Safety Information	Added "Revision History" to appendix. Added Summit Radio (LXE Model No. 4830) to appendix.

Revision E: October 2006

Section	Explanation
Notices	Updated copyrights and trademarks.
Accessories	Updated Accessories listing.
Input Panel (Virtual Keyboard)	Revised section.
Appendix B – Regulatory Notices and Safety Information	Revised 4830 Declaration of Conformity

Revision F: November 2007

Section	Explanation
Entire Manual	Updated specific references to Microsoft Windows CE .NET to generic references to Microsoft Windows CE to reflect the availability of either Windows CE .NET or CE 5.0 operating systems on the VX6. Added Bluetooth information and instruction.
Accessories	Revised Accessories listing.
Strain Relief Cable Clamps	Added new section.
AppLock and the VX6	Revised section.
Appendix B – Regulatory Notices and Safety Information	Added translated Chinese Class A statement and Republic of Singapore IDA Standards text. Revised "R&TTE Directive Requirements".

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