

Bitronics Switch Kit User Manual

P72655



READ THIS MANUAL IN ITS ENTIRETY BEFORE ATTEMPTING TO CONNECT DEVICES, THE BITRONICS SWITCH, OR INSTALLING THE SOFTWARE. IMPROPER SETTINGS OR CONFIGURATIONS CAN CAUSE DATA CORRUPTION.

۱. Introduction

Thank you for purchasing the Belkin Components Bitronics DualBus Switch Kit! Now, you and your colleague can share and select between two different parallel devices from your desktop. Plus, if you are using Windows 95 or 98, you will take advantage of Virtual Port Software, which allows you to print automatically!

The Bitronics DualBus Switch gives you and another computer the ability to communicate to two parallel devices at the same time. Also, it allows you to switch so that either user can use either device through the switching software.

11. **Package Contents**

Bitronics DualBus Switch, 2-2 F1U127

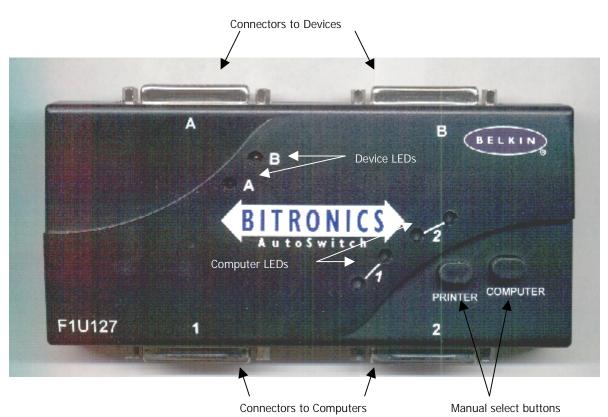
Power Adapter, 9VDC, 600mA F1D065-PWR

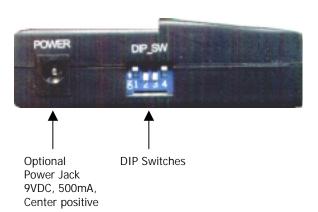
2 x IEEE 1284 compliant cables F2A047-06

User manual P72655

Registration card P72009

Ш. **Product Detail**





DIP Switch Settings (ON is Down)

SW1 - RESET switch Normal Operation ON:

OFF: RESET the switch

SW2 and SW3 - Time Out setting.

Time Out is the amount of time the switch remains locked on a computer after data transfer. Use a longer Time Out when connecting to Scanners, Mass Storage Devices, or when printing large print jobs.

int Jobs.			
SW2	SW3	Time Out Setting	
ON	ON	5 seconds	
ON	OFF	10 seconds	← Recommended
OFF	ON	20 seconds	
OFF	OFF	40 seconds	

SW4 - Not used

IV. Choose your Operating System

- Windows® 3.x → Continue below:
- Windows® 95/98 and NT → Continue to next page.
- MS-DOS → Continue below:

V. Manual Mode

In manual mode, you can select port manually through the buttons on the Bitronics switch.

- Press computer to select which computer port you wish to configure. For the computer connected to Port 1, press the COMPUTER button until the LEDs on Port 1 are lit up either in red or green.
- When you have selected which computer you wish to configure, now press the PRINTER button until the LED of the appropriate device port you wish to use is lit up.
- For example, if you want computer 2 to use the device on port A, press the COMPUTER button until the LEDs on "2" are lit up. Then, press the PRINTER button until LED "A" is lit up.
- To use File Transfer mode, press the printer button until the LEDs on the computer ports turn green. That means that that port is ready for file transfer mode. For file transfer mode to be successful for both PCs, the both computer ports must be set file transfer mode which is evident when the LEDs next to "1" and "2" are green. For more information on File Transfer, please see page 12.

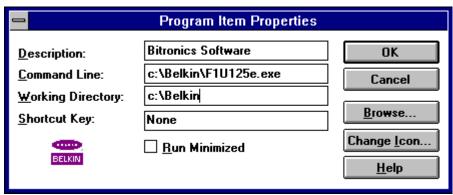


Printer Button Computer Button

VI. Windows® 3.x

In Windows® 3.x, you will have to exit to MS-DOS first to make this easier:

- At the C:\> prompt, type the following and press ENTER: md c:\Belkin
- 2. Insert the floppy disk containing the Windows® 3.x software (part# P72736) into your a: drive.
- 3. At the next prompt, type the following and press ENTER: copy a:\Win3.x\F1U125e.exe c:\Belkin
- 4. When you get the prompt back, restart your computer and go back into Windows®.
- Lastly, you will have to create a shortcut to the program. In the Program Manager, select the Start Up window by clicking on WINDOW, then START UP.
- 6. Click on FILE, NEW, PROGRAM ITEM, then OK. The next window must be filled out like this:



When done, click OK.

In Windows® 3.x, there is no possibility in making the software automatic because of the limitations of the operating system. Hence, you will need to use this software each time you need to switch ports. Since it is in the START UP program group, each time you start Windows®, the program will be running.

VII. MS-DOS

In MS-DOS, there re two files which can be used, and both are in the first disk (part# P72735) in the DOS subdirectory. These files are:

- DOSSWTCH.com
- F1U125.com

DOSSWTCH.com is a directly executable program. You must follow the syntax in order to invoke the switch to change ports. For example, entering the following,

DOSSWTCH LPT1 A

will cause the switch to set your current computer to connect to Port A.

F1U125.com is a TSR program. Once it is loaded, it stays in memory. You can access it in any non-protected DOS-mode program by pressing both SHIFT keys simultaneously. The following window will pop-up:



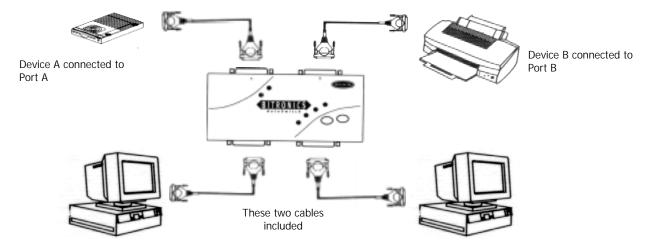
To make a selection, hit ENTER, and to go back, hit ESC. You can also change the "Hot Key" from the default L_SHIFT and R_SHIFT, to something else you prefer.

VIII. Windows® 95 / 98 and NT

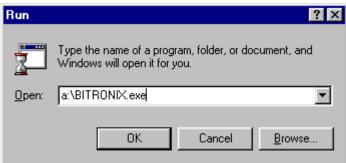
BEFORE YOU INSTALL THE BELKIN BITRONICS SOFTWARE, YOU MUST FIRST MAKE SURE THAT EACH DEVICE WORKS PROPERLY ON ITS OWN WITH EACH COMPUTER

- 1. Make sure that the printer port on your computer is set to ECP mode. To do this, you must go into your computer's BIOS or CMOS setup. Instructions on how to do this differ from one computer to the next. Please consult your computer manufacturer's manual, tech support, or website for information on how to do this. Please do not call Belkin Tech Support on this because each computer's BIOS setup routine is different.
- 2. Make sure that the software and drivers for the devices to be shared are properly installed on both computers. If you are sharing two printers between two computers, make sure that the printer drivers for both printers are installed and working properly on both computers. If you are sharing a Zip® drive and a scanner between two computers, make sure that the software and drivers of each device are installed and working properly on both computers.
- 3. Connect the two computers, and the device to be shared to the Bitronics Switch as shown below. The cables from the computers to the Bitronics switch are included in the package. **Take note of which port each device is connected to**:

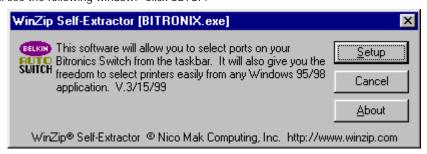
 The example shown has a Zip® drive connected to Port A and an InkJet printer on Port B of the switch.



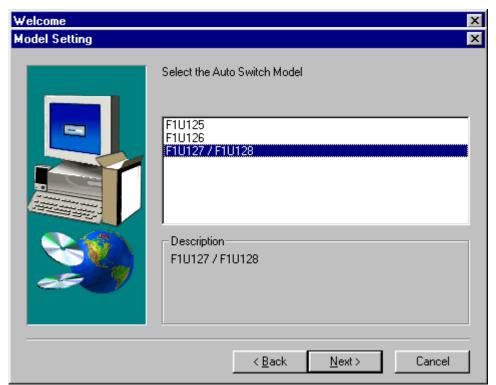
- 4. In order for both computers to properly share the devices, the software must be installed on both computers.
 - 4.1. Put the disk into your floppy drive. Click on START, then RUN. Enter a:\BITRONIX.exe, then click OK



4.2. You will see the following window. Click SETUP.



4.3. Close all other running applications so that the software installation can proceed quickly and smoothly. Click NEXT.

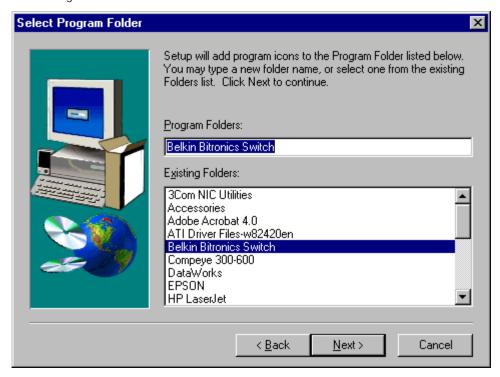


4.4. Select the model of Bitronics Switch you have, which is the F1U127 / F1U128. Click NEXT.

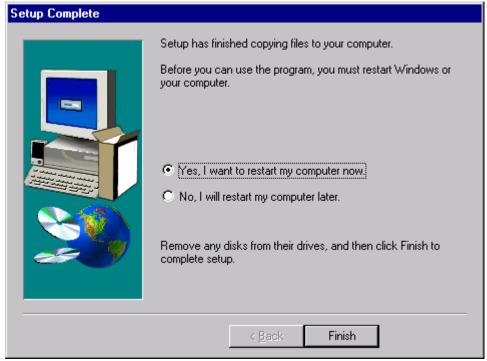
4.5. Select destination folder. The default folder is recommended. Click NEXT.



4.6. Select Program Folder. The default is the recommended. Click NEXT.



4.7. When done installing, the program will ask you to restart your computer. You must restart in order to activate the

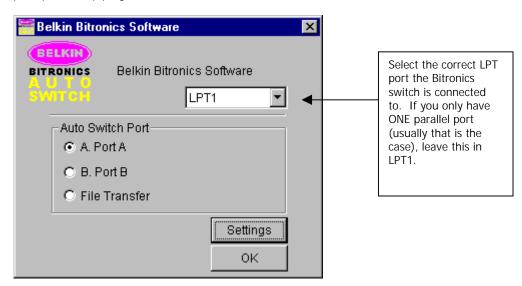


software properly. Click FINISH.

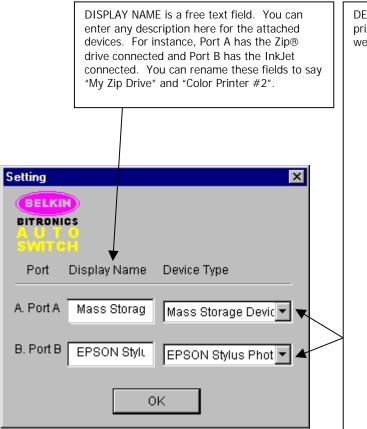
5. Once your computer has rebooted, the Bitronics icon will appear in your system tray.



6. **Double-click** on the icon to open up the setup program:



7. Click on SETTINGS. Here, we have to tell the software what devices are connect to which port:



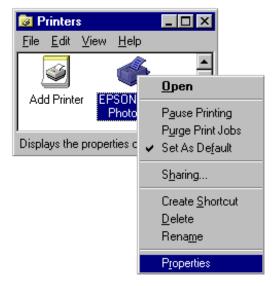
DEVICE TYPE gives you a pull-down menu showing the types of printers installed on your computer and other parallel devices as well

Here, you must select the correct type for the device connected to that port.

- If you are using a device which adds a drive letter to your system (like a Zip™ Drive, CD-ROM, LS-120, etc...), use MASS STORAGE DEVICE.
- If you are using a printer, use the printer driver used for that particular printer on that port of the Bitronics switch. If it does not show up in this menu, that means the printer drivers have not been installed. (If not, reinstall the printer drivers and repeat this step after rebooting your computer.) If you have more than one printer installed, make sure that the correct driver is used for the printer connected to that port on the Bitronics switch.
- For any other parallel device, just use SCANNER, and change the DISPLAY NAME accordingly. For example, if you have a parallel tape drive, use SCANNER for DEVICE TYPE, then enter "Tape Drive" in DISPLAY NAME.

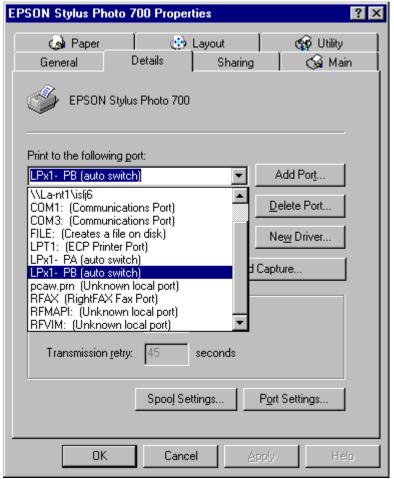
Click OK when done.

- 8. If one or both of the devices being shared is a printer, you must follow the procedure below to reconfigure the port connected to the printer. If both devices are printers, then this must be done for both printers.
 - 8.1. Click on START, SETTINGS, PRINTERS.
 - 8.2. Right-click on the printer installed on the Bitronics switch, and click on PROPERTIES:

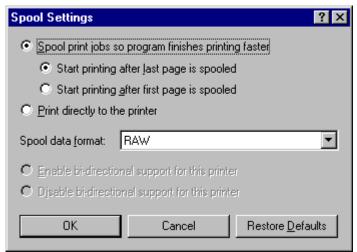


- 8.3. Click on the DETAILS tab. In the pull-down menu "Print to the following port:", select the correct port this printer is connected to on the Bitronics switch:
 - LPx1 PA (auto switch) → Select this if the printer is connected to Port A of the Bitronics switch
 - LPx1 PB (auto switch) → Select this if the printer is connected to Port B of the Bitronics switch

In the image below, the printer is connected to Port B of the Bitronics switch. Therefore, **LPx1 – PB (auto switch)** is selected. When done, click OK.



8.4. Click on SPOOL SETTINGS and click on "Start printing after last page is spooled".



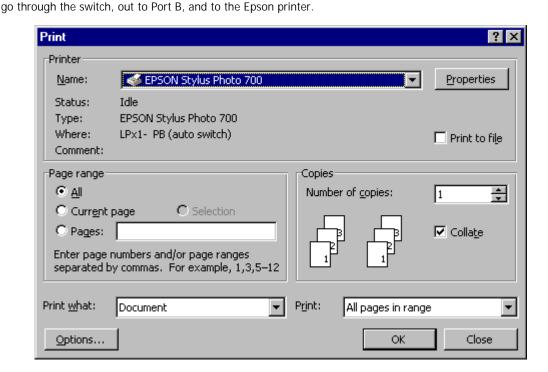
- 8.5. If NOT grayed out, click on "Disable bi-directional support for this printer". Otherwise, ignore.
- 8.6. Click OK in the Spool Settings window, and OK again in the main properties window.

Using the Bitronics Software

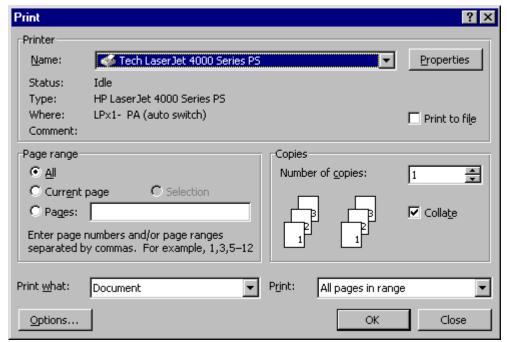
Example: Two Printers Shared Between Two Computers

The Bitronics Software automatically handles printing chores by directing your print jobs to the correct port on the switch based on the settings you set in the Printer Properties and the Settings in step 7 previously. When you print something in Windows®, you simply select the printer you wish to print to, and the Bitronics software handles the switching duties. ITS FULLY AUTOMATIC!

How does it work? The Bitronics software tells the Bitronics switch to switch to the port the selected printer is connected to. In the example below, the Bitronics software tells the Bitronics switch to switch to Port B first, then it allows the print job to



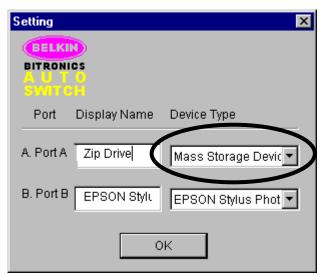
Then if you wish to print to the second printer, let's say a LaserJet for example, all you have to do is select that particular printer in the PRINT dialog box. Click OK, and the print job is automatically sent to the LaserJet printer on Port A of the Bitronics switch.



Example: Sharing One Printer and a Zip® drive (or any other mass storage device)

When dealing with a mass storage device (devices that add a drive letter to your system like "E:") such as a Zip® drive, the Bitronics Software in the system tray must be configured so that the Bitronics switch is defaulted to the Port attached to the Zip® drive. It is necessary for the switch to always remains connected to the Zip® drive so that anytime you access that drive, you will always be connected, and not get error messages:

1. Make sure that the port that connects to the Zip® drive is set to MASS STORAGE DEVICE in settings. See Step 7 above for more info. The image below shows the Zip® drive is connected to Port A, and that the device type is MASS STORAGE DEVICE. Type anything you want in Display Name. Click OK when done.



2. Click on the port that has the mass storage device connected. In this case, it is a Zip® drive on Port A. As you can see, the Display Name entered above appears below as you had entered it. Click OK.



Now what happens is that the Bitronics switch always keeps your computer connected to the Zip® drive. That way, anytime you access it, you will not get any strange errors. Then when you print to the Ink Jet Printer on Port B (as shown above), the Bitronics switch will switch to Port B temporarily to send the print job, then switch back to Port A to keep communication with the Zip® drive.

Visual Feedback - How do I know what port I am on?

When the Bitronics switch is in its normal scanning mode, the LEDs are flipping back and forth across the computer ports. To see the software in action, simply hit the COMPUTER button so you can see a computer port's connection. Press the COMPUTER port until the LEDs around "1" are lit up, and you will see which device port it is currently connected to. If it is in File Transfer mode, the computer port LEDs are green, and neither device port LEDs will be lit. Then, click on the Bitronics software icon in the taskbar and change ports. You will see the LED of the Bitronics switch to the port you chose.

Using any other parallel device (not printers or mass storage devices) with a printer

When dealing with other parallel port devices, they are set as SCANNERS in the SETTINGS (step 7 above). Examples of these are scanners, parallel port cameras, and tape drives. When you need access to this device, simply single-click on the Bitronics system tray icon, and select the device you wish to use. A check mark will appear showing which device is connected. For example, we have a scanner and a printer on the Bitronics switch:



You will be connected to the

time you need to use it.

scanner device indefinitely. But lets say you wish to print to the Ink Jet printer, the software will again automatically switch to the port that has the printer and send the print job. However, the switch will remain connected to the printer - it will not change back to the Scanner, unlike the mass storage device mentioned previously. This means that you have to use this method to switch to the scanner each

If no printers are installed

If no printers are installed, the SETTINGS type (see step 7) for each device must be set either for MASS STORAGE DEVICE (if the device adds a drive letter to your system), or SCANNER (for all other types of devices).

The Bitronics software may not function properly in some systems if there is no DEFAULT PRINTER set. To do this, add a printer using the Add Printer Wizard (click START, SETTINGS, PRINTERS), and just use the "Generic / Text Only" driver. Remember to use "Local Printer" and "LPT1" when the wizard asks you. This will then be set as your default printer, so that the Bitronics software can work properly.

Removing and Adding the Bitronics Switch Icon from the System Tray

- To remove the icon, simply right click on it, and answer YES to the prompt.
- To reload the icon back into the system tray, click on START, PROGRAMS, BELKIN BITRONICS SWITCH, "AutoSwitch-Multi PCs"

Using the File Transfer Feature

The file transfer feature of the Bitronics switch allows both computers to connect as if there was a file transfer cable connected between them. To do this, double-click on the Bitronics switch system tray icon, and click on FILE TRANSFER:

A set of PC LEDs on the Bitronics switch will turn green. These LEDs represents the computer you are on now is set for file transfer mode.

Next, the second PC must also perform the same operation. When both sets of PC LEDs on the Bitronics switch are green (all four), then the computers are ready for file transfer. At this point, the cables and the Bitronics switch act as if it was a file transfer cable. You can now run programs such as Windows® Direct Cable Connection, or Laplink. Please refer to their user manuals or websites for information on how to configure their software. Just remember that your Bitronics switch setup mimics the file transfer cable requirement.



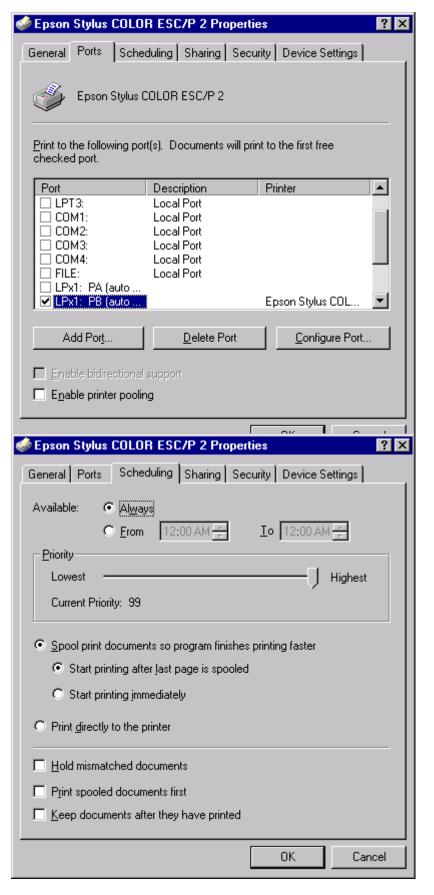
Usage in Windows® NT

In Windows® NT, you can perform the same installation as in the Windows® 95 /98 procedure above. Make sure the power supply is connected to the Bitronics switch, otherwise, there may be a significant delay in the processing of requests from NT-based machines.

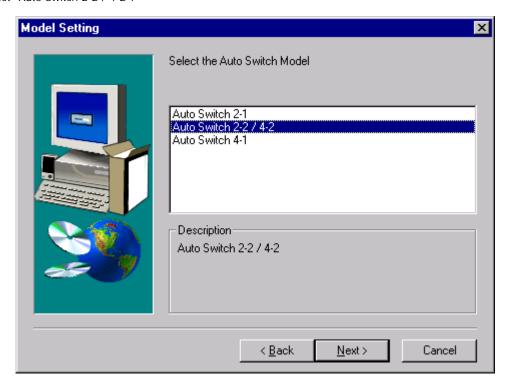
The Printer properties in Windows® NT is slightly different. After installing the software and restarting the computer, go the printer properties and select the PORTS tab. To find the correct ports to be used with the Bitronics switch, you must scroll down the list until the "LPx1: PA (autoswitch)" comes up. Put a checkmark on the port that connects to the printer. In this case, it is Port A on the Bitronics switch:

To set the spool settings correctly, click on the SCHEDULING tab. Make sure "Start printing after last page is spooled" is selected. Also, set "Priority" to highest:

Click OK when done.



If you are still having problems using the BITRONIX.exe software setup above, first UNINSTALL the Bitronics software. You can do this by right-clicking on the taskbar icon and answering YES to the prompt. Then, click on START, PROGRAMS, BELKIN BITRONICS SWITCH, then UNINSTALLSHIELD. After restarting your computer, you can install the older NT version of the software located in the second disk (part# P72736). During the installation, it will ask you the model number. Please select "Auto Switch 2-2 / 4-2":



This version of the software is not fully automatic in printer selection. It requires the user to select ports each time through the taskbar icon.

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Corporate Headquarters

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DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220, declare under our sole responsibility that the product:

F1U127-KIT Bitronics Switch Kit

to which declaration relates:

Complies with Part 15 of the FCC Rules. 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.

CE Declaration of Conformity

We, Belkin Components, declare under our sole responsibility that the

F1U127-KIT Bitronics Switch Kit

to which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1 and with Generic Immunity Standard EN50082-1 1992.

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