

Studio & Pilot Computers Manual

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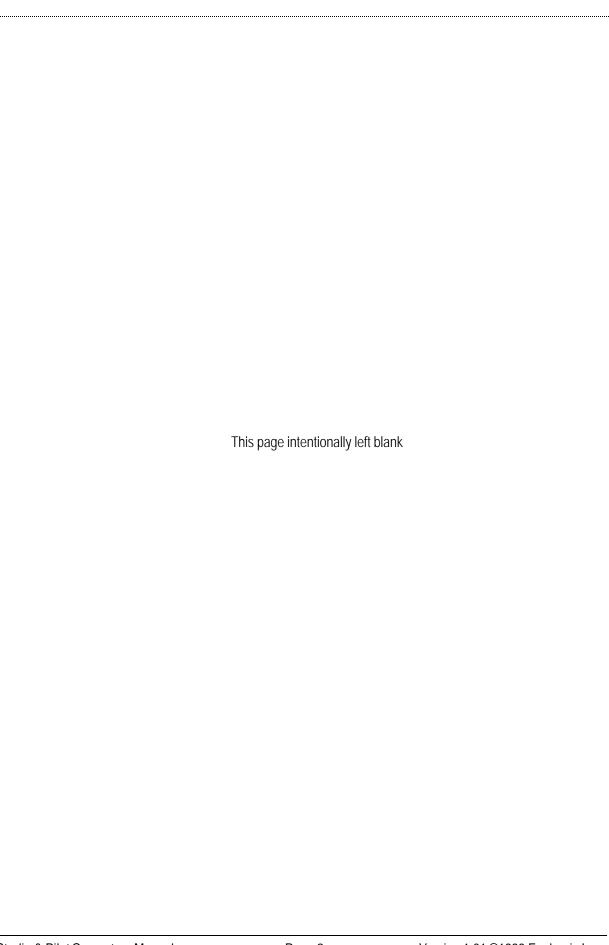


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Box Inventory

The SC261 System Computer is packaged as follows:

Description	Part #	Qty
SC261 System PC Package	956-06668-01	1
SC261 package	936-07369-01	1
Pilot Computers manual	840-07590-01	1

The PC253d Digital Pilot is packaged as follows:

Description	Part #	Qty
PC253d Digital Pilot Package	956-06647-01	1
PC253d package	936-07370-01	1
Pilot Computers manual	840-07590-01	1

The PC253i Interface Pilot is packaged as follows:

Description	Part #	Qty
PC253i Interface Pilot Package	956-06646-01	1
PC253i package	936-07371-01	1
Pilot Computers manual	840-07590-01	1

Safety and Precautions

- 1) Read Instructions Read all the safety and operation instructions before operating the Studio & Pilot computers.
- 2) Heed Warnings Follow all warnings on the Studio & Pilot computers and in these operating instructions.
- 3) Water and Moisture Do not use the Studio & Pilot computers near water.
- 4) Heat Locate the Studio & Pilot computers away from heat sources.
- 5) Power Sources Connect the Studio & Pilot computers only to a power supply of the type described in these operation instructions or as marked on the Studio & Pilot computers.
- 6) Power Cord Protection Route power cords so that they are not likely to be walked upon or pinched by items placed on them.
- 7) Object and Liquid Entry Do not drop objects or spill liquids on the Studio & Pilot computers.
- 8) Damage Requiring Service The Studio & Pilot computers should be serviced only by qualified personnel when:
 - a) Objects have fallen, or liquid has spilled into the Studio & Pilot computers; or
 - b) The Studio & Pilot computers do not appear to operate or exhibit a marked change in performance; or,
 - c) The Studio & Pilot computers have been dropped or there is damage to a chassis.

- 9) Servicing Do not attempt to service the Studio & Pilot computers beyond those means described in this operation manual. All other servicing should be referred to the Euphonix Tech Support department.
- 10) Fuse replacement To prevent electric shock and avoid risk of fire, replace fuse only with the same type and rating.
- 11) To prevent electric shock, do not use the Studio & Pilot computers polarized plug with and extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.
- 12) Grounding or Polarization Do not defeat the grounding or polarization of the Studio & Pilot computers.
- 13) Cooling Ventilation for cooling is provided to the Studio & Pilot computers via a rear mounted fan. This fan draws cooling air into the chassis from the openings on the front panel. To avoid damage to the units, do not block the fan or the front panel openings. Do not disconnect the fan.

There are no user serviceable parts in the Studio and Pilot computers.

System Setup

Studio Computer

Configured as a standard PC, the Studio computer requires the following connections to the rear of the enclosure:

- Attach the 15 pin high density Dsub connector from the video monitor to the port marked . The connector is on a separate video card installed on the computer. Do not use the video connector on the motherboard.
- 4) Attach the RJ45 network cable connector to the port labeled LAN1.
- 5) Attach the other end of the RJ45 cable to an input port on the EuCon Switch.
- 6) Attach the provided IEC compatible power cable to the IEC inlet.

Digital Pilot

- 1) Attach the RJ45 network cable connector to the port labeled LAN1.
- 2) Attach the IEEE1394 cable to one of the ports marked IEEE1394. Attach the other end of this cable to the FC631 card at one of the ports labeled FIREWIRE on the corresponding DF64 Digital Frame.
- 3) Attach the provided IEC compatible power cable to the IEC inlet.

Interface Pilot

- 1) Attach the RJ45 network cable connector to the port labeled LAN1.
- 2) Attach the TCC breakout cable to the DB62 connector on the TCC card lower connector). This breaks out to 4-DB15 control lines.
- 3) Attach a 15 pin Dsub cable from control line #1 to the MC524 Monitor Interface.
- 4) Attach additional 15 pin Dsub cables from control lines 2, 3, and 4 to ML530 Mic-Line Interfaces.
- 5) If more than 3 ML530s need to be connected, attach another TCC breakout cable to the extension DB62 connector (upper) and connect DB15 cables the ML530 Mic-Line Interfaces from control lines 5, 6, 7, and 8.
- 6) Attach a parallel port cable between the parallel ports on the Interface Pilot and the MIDI interface.

Power On Sequence

- 1) The Studio Computer is powered on first when bringing up System 5.
- 2) Power on the Studio Hub, MIDI Express, TT007, Eucon Hub, and all converters.
- 3) Bring up the eMix software and power on the console, and the Interface Pilot and Digital Pilot(s).
- 4) When the Digital Pilots indicate that their virtual mixers are loaded, the DF64 Digital Frames can be powered on.

Power Down Sequence

Please use the following steps to power down the Studio Computer:

- 1) Shut down all applications. Press CTRL+ALT+* together to exit eMix.
- 2) From the Windows desktop, guide the mouse cursor into the lower left hand corner of the monitor screen, the Start Bar will appear.
- 3) Left-click on the *Start* button on the lower left of the Start Bar. A menu will appear.
- 4) Left-click on the lowest item in the menu; *Shut Down.* A menu will appear.
- 5) Click on Shut Down. Click on OK.
- 6) Wait until you are presented with a screen that states, *It is now safe to shut down the computer*.
- 7) Press the power button on the front of the Studio PC.

CE

The Studio & Pilot computers are fully CE compliant. Documentation is available from the factory.

Component Overview

Functional Description

System 5 includes three types of rack mount computers that manage communications among several of the System 5 sub components. The three types are designated Studio Computer (SC261), Digital Pilot (PC253i), and Interface Pilot (PC253d). Each type has a specific configuration and function within System 5. All are interconnected on a 100T full duplex network via the EuCon Network and Hub.

SC261 Studio Computer

The Studio Computer runs the eMix software on a NT platform and is equipped with a mouse, keyboard, and video monitor. Use this computer station for non real time audio functions such as setting system configuration parameters, patching signal paths, file management, and backups. System configuration information is communicated to other System 5 components via the EuCon network.

PC253d Digital Pilot

The Digital Pilot(s) receive control information from the individual System 5 Control Modules. This information is then used to manipulate the digital audio which passes through the DF64 Digital Frame(s). Control Module signals are passed to the Digital Pilot(s) via the EuCon Hub over a RJ45 network cable. The Digital Pilot translates the incoming Ethernet signal into high speed IEEE1394 protocol which is used to control audio parameters in the DF64. One Digital Pilot is required for each DF64 Digital Frame.

PC253i Interface Pilot

The Interface Pilot manages communications between the System 5 Control Surface Modules and the Monitor Interface, Mic-Line Interface, MIDI Interface, and TT-007 Machine Control module. Control Module signals are passed to the Interface Pilot via the EuCon Hub over a RJ45 network cable. The Interface Pilot controls parameters in the Monitor Interface, Mic-Line Interface, MIDI Interface, and TT-007.

Features

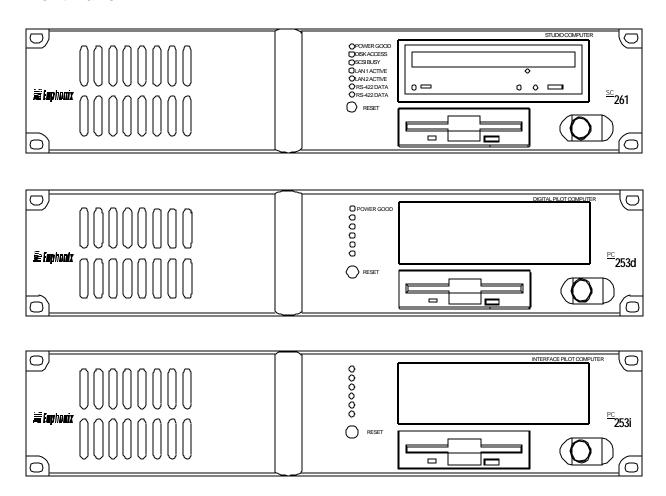
The Studio Computer, Digital Pilot, and Interface Pilot are high speed Pentium II computers in a 2 RU brushed aluminum cases.

Typical Use

The Studio & Pilot computers ARE NOT PROVIDED AS A GENERAL COMPUTER TOOLS. Do not run third party software on any of the System 5 computers (unless specified or included by Euphonix). Euphonix does not guarantee correct and reliable operation of System 5 under such circumstances.

Physical Specifications

Front Panel



Front Panel Features

Power Switch On/Off button powers up the unit.

24X CD ROM Drive(SC261) For upgrading system software.

3.5" Floppy Drive For upgrading system software, back up of Title files, or other system housekeeping

duties.

Power Good LED (SC261 and PC253d) Indicates the unit is powered up.

Disk Access LED (SC261) Indicates the Operating System (DOS) drive is active.

SCSI Busy LED (SC261) Indicates the SCSI network is active.

LAN 1 Active LED (SC261) Indicates activity on the first SCSI port.

LAN 2 Active LED (SC261) Indicates activity on the second SCSI port.

RS-422 Data LED (SC261) Indicates activity on the first RS-422 serial port.

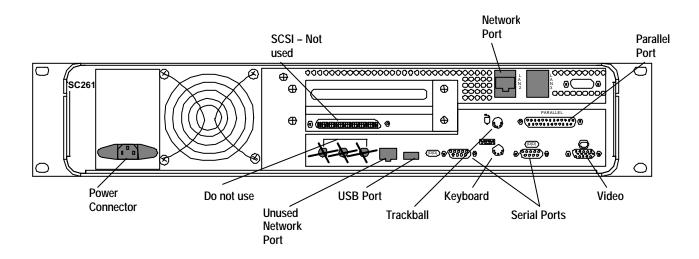
RS-422 Data LED (SC261) Indicates activity on the second RS-422 serial port.

Can be used for a 'warm' reboot of computer. This button is recessed into the front panel so it will not be accidentally pressed. **Reset Button**

Dimensions and Weight

Height: 3.5 inches Width: 19 inches Depth: 18 inches Weight: 25 lbs

Rear Panel SC261 Studio Computer



Video Connector (15 Pin D sub) The video monitor connection is made at this port.

Parallel Port (25 pin Dsub) A printer or other parallel port device can connected here.

Keyboard (PS2) Connect keyboard cable here.Trackball (PS2) Connect trackball cable here.

USB Port (USB) Universal serial Bus port. A USB device can be connected here.

Network Ports (RJ45) A Local Area Network (LAN) can be connected at this port to give the Studio

computer access to networked resources including Internet access if your facility is so

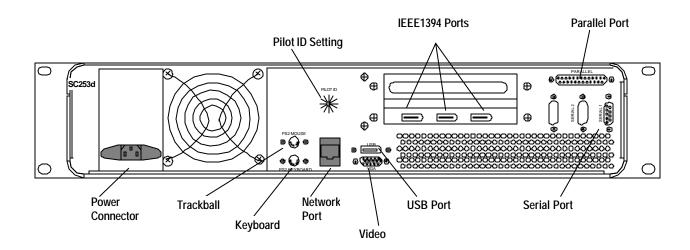
equipped.

SCSI (68 pin D-sub female) This connection is not currently used.

Power Connector (IEC) The IEC power connector accepts standard IEC power cords. A switching power

supplied is used so voltages from 110 volts to 240 volts, 50 or 60 cycle, can be input.

Rear Panel PC253d Digital Pilot



Serial Port (9 Pin D sub) A serial device can be connected here.

Parallel Port (25 pin Dsub) A printer or other parallel port device can connected here.

IEEE1394 Ports(3) (62 pin Dsub) Connect one port to IEEE1394 connector on FC631 card in DF64.

USB Port (USB) Universal Serial Bus port. A USB device can be connected here.

Video Connector (15 Pin D sub) The video monitor connection is made at this port.

Pilot ID Setting (Rotary switch) Use this switch to assign Pilot ID numbers.

Network Port (RJ45) A EuCon Network connection is made here..

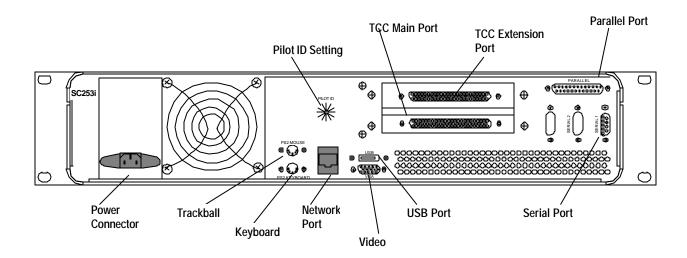
Keyboard (PS2) Connect keyboard cable here.

Trackball (PS2) Connect trackball cable here.

Power Connector (IEC) The IEC power connector accepts standard IEC power cords. A switching power

supplied is used so voltages from 110 volts to 240 volts, 50 or 60 cycle, can be input.

Rear PanelPC253I Interface Pilot



Serial Port (9 Pin D sub) A serial device can be connected here.

Parallel Port (25 pin Dsub) A printer or other parallel port device can connected here.

TCC Main Port (62 pin Dsub) Connect TTC breakout cable here.

TCC Extension Port (62 pin Dsub) Connect second TTC breakout cable here if more than 3 Mic-Line

interfaces are used...

USB Port (USB) Universal Serial Bus port. A USB device can be connected here.

Video Connector (15 Pin D sub) The video monitor connection is made at this port.

Pilot ID Setting (Rotary switch) Use this switch to assign Pilot ID numbers.

Network Port (RJ45) A EuCon Network connection is made here...

Keyboard (PS2) Connect keyboard cable here.

Trackball (PS2) Connect trackball cable here.

Power Connector (IEC) The IEC power connector accepts standard IEC power cords. A switching power

supplied is used so voltages from 110 volts to 240 volts, 50 or 60 cycle, can be input.

Technical Specifications

Performance Specifications

SC261 Studio Computer

Pentium II, 350 MHz, 256 MB RAM, 6 GB HD storage 3D/2D accelerated graphics at 1024 X 768 pixels with 16-bit color Ultra wide SCSI controller 10Base-T/100Base-T Ethernet network controller USB 1.0 interface

PC253d Digital Pilot

Tillamook – MMX 266 MHz, 128 MB RAM, 8 GB HD storage 10Base-T/100Base-T Ethernet network controller 400 Mbit IEEE 1394 interface

PC253i Interface Pilot

Tillamook – MMX 266 MHz, 128 MB RAM, 8 GB HD storage 10Base-T/100Base-T Ethernet network controller

Power Requirements

110-240 VAC at 50/60 Hz

Power Consumption

200 Watts

Environmental Requirements

5 to 35 degree Centigrade