

# **User Manual**

**Tektronix**

**OTS9000  
Optical Test System  
Mainframe  
071-0717-02**

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# Table of Contents

General Safety Summary .....	vii
Preface .....	xi

## Device Description

<b>Device Description .....</b>	<b>1-1</b>
Chassis .....	1-1
Overview .....	1-2
Chassis Details (Front) .....	1-3
Chassis Details (Rear) .....	1-4
Cooling .....	1-5
CPU Card .....	1-6
<b>Technical Data .....</b>	<b>1-9</b>
Chassis Specifications .....	1-9
Environmental .....	1-9
System .....	1-9
CPU Card Specifications .....	1-10
Environmental .....	1-10
Cooling .....	1-10
System .....	1-11
<b>Certifications and Compliance .....</b>	<b>1-12</b>
CE Mark Compliance .....	1-12
EMC Compliance Directive .....	1-12
Low Voltage Directive .....	1-12
Safety Approvals .....	1-13

## Getting Started

<b>Getting Started .....</b>	<b>2-1</b>
Start-Up the System .....	2-2
Equipment Return .....	2-4



# General Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any equipment connected to it. To avoid potential hazards, use this product only as specified.

*Only qualified personnel should perform service procedures.*

While using this product, you may need to access other parts of the system. Read the *General Safety Summary* in other system manuals for warnings and cautions related to operating the system.

## How to Avoid Fire or Personal Injury

**Use Proper Power Cord.** To avoid fire hazard, use only the power cord specified for this product.

**Use Proper Power Source.** Do not operate this product from a power source that applies more than the voltage specified.

**Connect and Disconnect Properly.** Do not connect or disconnect test leads while they are connected to a voltage source.

**Avoid Electric Overload.** To avoid electric shock or fire hazard, do not apply a voltage to a terminal that is outside the range specified for that terminal.

**Ground the Product.** This product is grounded through the grounding conductor of the power cord. To avoid electric shock, the grounding conductor must be connected to earth ground. Before making connections to the input or output terminals of the product, ensure that the product is properly grounded.

**Observe All Terminal Ratings.** To avoid fire or shock hazard, observe all ratings and markings on the product. Consult the product manual for further ratings information before making connections to the product.

The common terminal is at ground potential. Do not connect the common terminal to elevated voltages.

Do not apply a potential to any terminal, including the common terminal, that exceeds the maximum rating of that terminal.

**Replace Batteries Properly.** Replace batteries only with the proper type and rating specified.

**Recharge Batteries Properly.** Recharge batteries for the recommended charge cycle only.

**Use Proper AC Adapter.** Use only the AC adapter specified for this product.

**Do Not Operate Without Covers.** Do not operate this product with covers or panels removed.

**Do Not Look into the End of a Fiber Cable.** Never look into the end of a fiber cable or a single fiber which could be connected to a laser source. Laser radiation can damage your eyes because it is invisible and your pupils do not contract instinctively as with normal bright light. If you think your eyes have been exposed to laser radiation, you should have your eyes checked immediately by an eye doctor. The optical output's radiation power corresponds to the laser class in accordance with IEC 60825-1, 11.93.

**Use Proper Fuse.** To avoid fire hazard, use only the fuse type and rating specified for this product.

**Avoid Exposed Circuitry.** Do not touch exposed connections and components when power is present.

**Do Not Operate With Suspected Failures.** If you suspect there is damage to this product, have it inspected by qualified service personnel.

**Do not operate in Wet/Damp Conditions.** To avoid electric shock, do not operate this product in wet or damp conditions.

**Do Not Operate in Explosive Atmosphere.** To avoid injury or fire hazard, do not operate this product in an explosive atmosphere.

**Wear Eye Protection.** To avoid eye injury, wear eye protections if there is a possibility of exposure to high-intensity rays.



**Keep Product Surfaces Clean and Dry.**

**Provide Proper Ventilation.** Refer to the manual's installation instructions for details on installing the product so it has proper ventilation.

## Safety Terms and Symbols

### Terms in this Manual.

These terms may appear in this manual:

Icon	Label	Meaning
	<b>WARNING.</b>	Warning statements identify conditions or practices that could result in injury or loss of life.
	<b>CAUTION.</b>	Caution statements identify conditions or practices that could result in damage to this product or other property.

### Terms on the Product.

These terms may appear on the product:

**DANGER** indicates an injury hazard immediately accessible as you read the marking.

**WARNING** indicates an injury hazard not immediately accessible as you read the marking.

**CAUTION** indicates a hazard to property including the product.

### Symbols on the Product.

The following symbols may appear on the product:



**WARNING**  
High Voltage



**WARNING**  
Laser Radiation



**CAUTION**  
Refer to Manual



Protective Ground  
(Earth) Terminal



Electrostatically  
hazardous



Double  
Insulated

### Certifications and Compliance

**CSA Certified Power Cords.** CSA Certification includes the products and power cords appropriate for use in the North American power network. All other power cords supplied are approved for the country of use.



# Preface

The Mainframe User Manual describes the OTS-9000 mainframe and comprises the chassis description as well as the PC Board and transition module description.

This manual discusses functions and features of the equipment that can be accessed by all users, regardless of training or skill level. The material contained in this manual discusses only user-accessible parts and/or operations.

This chapter discusses the primary features of the chassis.

The user interface also provides Windows Help files for further information on specific topics.

## How This Manual is Organized

This manual is divided into four sections: *General Safety Summary*, *Preface*, *Device Description*, *Getting Started*.

- The *General Safety Summary* is the most important part of the manual. You should read it before you start working with the equipment and you should always follow the safety instructions.
- *Preface* provides an overview of this manual.
- *Device Description* discusses the primary features of the mainframe and also includes the technical data.
- *Getting Started* describes first-time operation.

## Conventions

This manual uses the following conventions:

- ❖ The names of front-panel connectors and LEDs appear in the manual in the same format as found on the front panel label, for example, OPTICAL IN and Rx DATA OUT.
- ❖ In reference to the instrument, the following conventions apply:
  - When referring to the mainframe or the whole system, the name OTS-9000 is used.
  - When referring to a module, the nomenclature for the individual module is used.



# Device Description

This chapter discusses the primary features of the OTS9000 14-slot mainframe. The mainframe in this context comprises the chassis – with fan and power supply modules included - and the CPU card, which is combined with a companion rear I/O Transition Module.



**CAUTION.** Observe ESD safety regulations while handling the instrument to prevent accidental damage that can be caused by static discharge.

## Chassis

The chassis provides features that permit great flexibility and serviceability in a robust architecture that is based upon a CompactPCI® industry standard, compliant with IEEE 1101.1 and IEEE 1101.10.

It contains the following standard features:

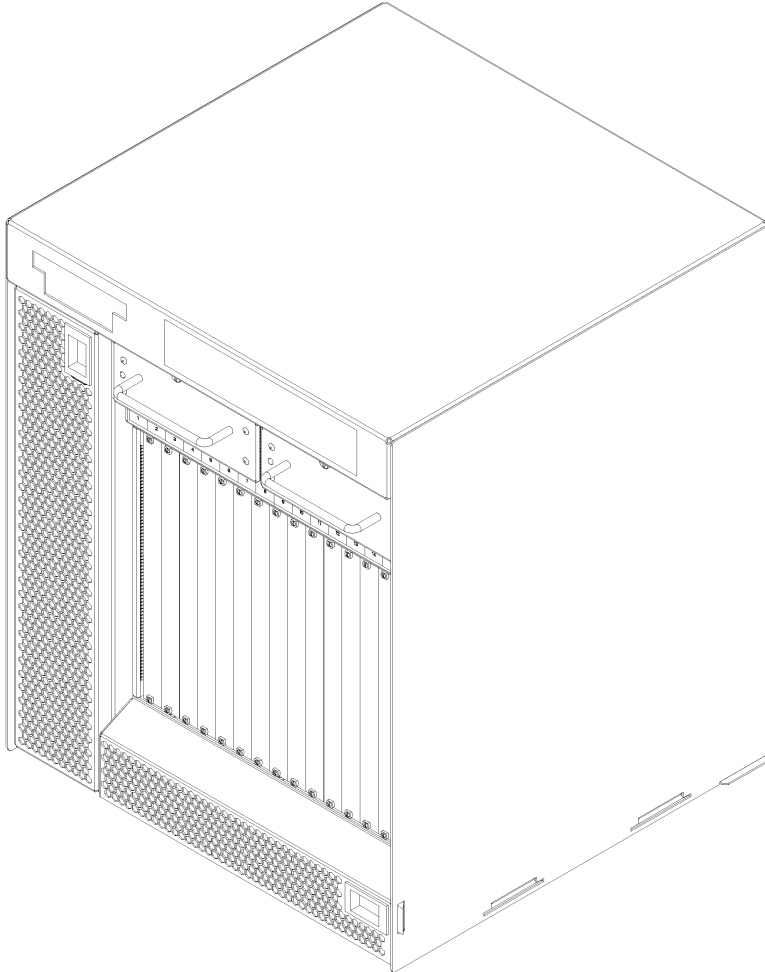
- Fan modules (for more information, see “Cooling”)
- Airflow temperature sensors: intake and exhaust
- EMI filter covers for the power supplies
- Up to sixteen slots available at front and rear
- AC power supplies
- AC power entry module (PEM), or one (1) dual DC PEM



**CAUTION!** When installing and removing modules from the mainframe, power must not be present. Ensure that all power switches are in the OFF position and power cords are not installed before removing or installing modules. **The OTS-9000 system does NOT support hot-swap installations.**

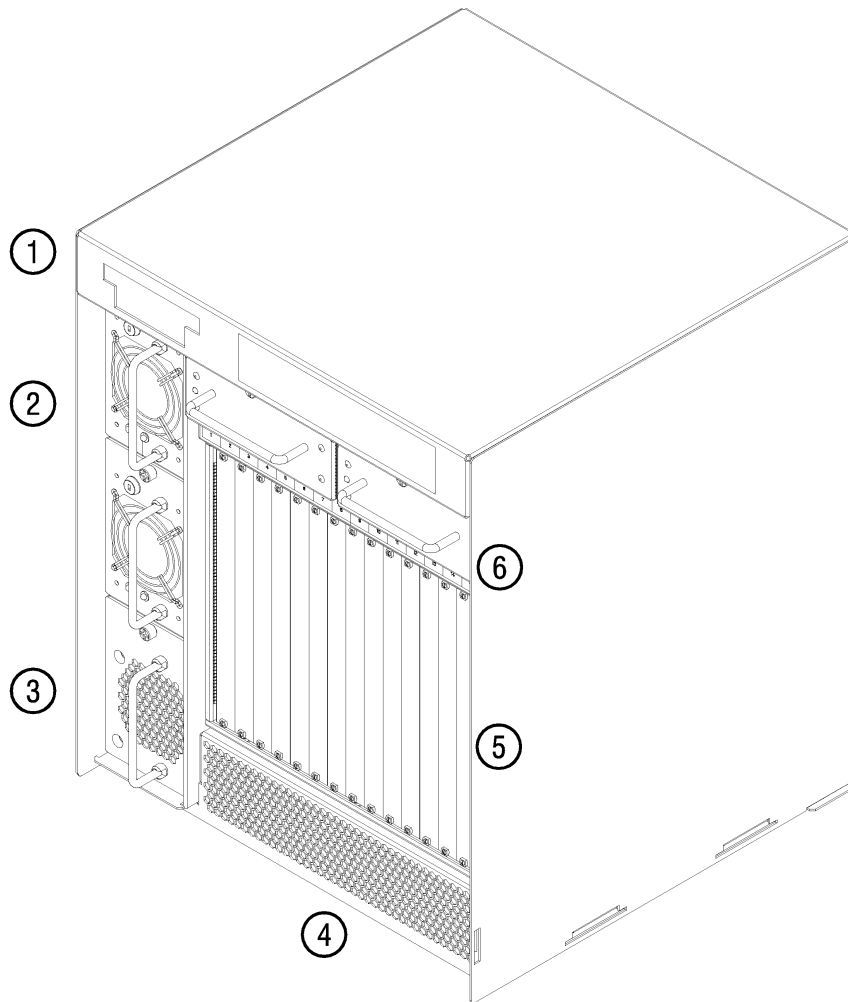
## Overview

**Figure 1. The Chassis**



## Chassis Details (Front)

Figure 2. Front Details (shown with filter covers removed).



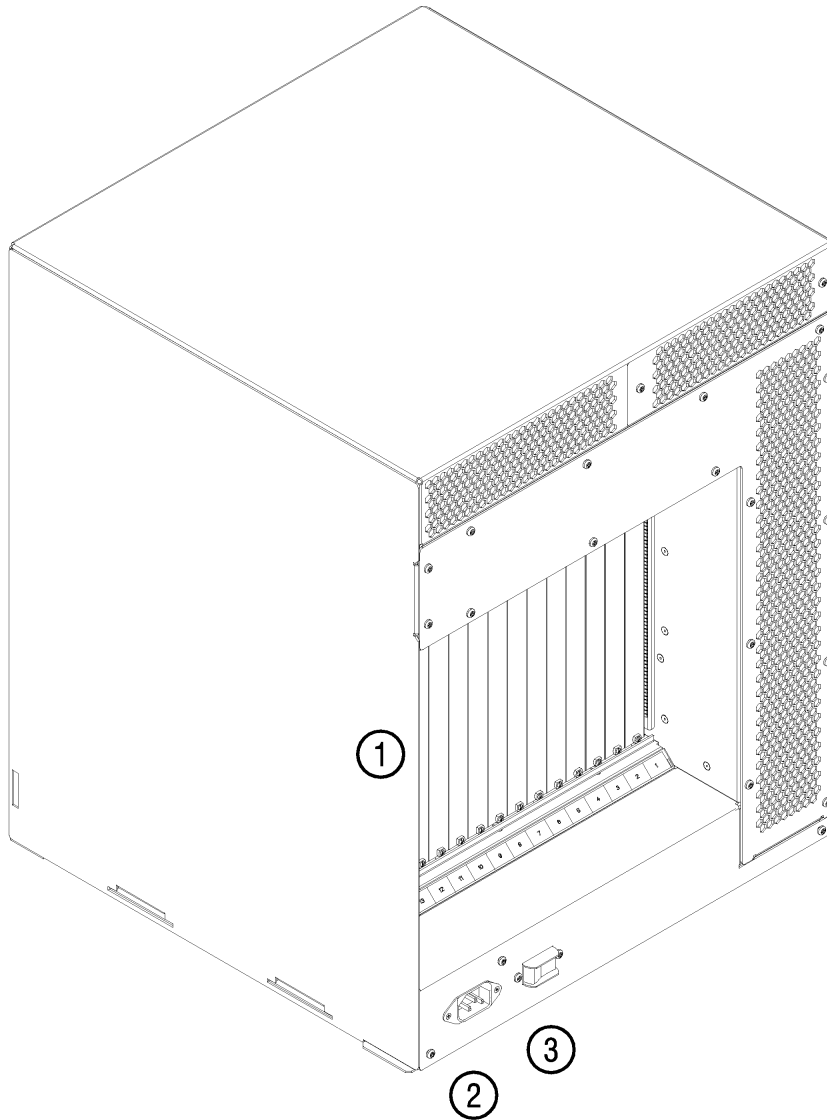
### Figure Note

1. Floppy Drive and CD-ROM Drive
2. 500 W Power Supplies (2)
3. -5.2 V Power Supply
4. Air Intake
5. Card Cage (Shown with all covers installed)
6. Fan Modules (2)

The CPU card has to be installed in chassis slot 8 and 9 and is combined with a companion rear I/O Transition Module.

## Chassis Details (Rear)

Figure 3. Rear Details



### Figure Note

1. Rear Card Cage (shown with all covers installed)
2. Power Receptacle
3. On/Off Switch

The CPU card has to be installed in chassis slot 8 and 9 and is combined with a companion rear I/O Transition Module.

## Cooling

The following paragraphs detail the design considerations of the chassis which promote reliable and efficient cooling.

**Power Supplies.** The Power Supplies pull air into the supplies at the front and exhaust at the rear through vents located to the side of the peripheral expansion slots.

**Fan Modules.** The Fan Modules pull air into the front of the chassis at the air intake vent. Airflow is then pulled upward, across the CPU card and peripheral expansion boards and expelled at the rear vents located above the peripheral expansion slots.

**Airflow Obstruction.** Ensure that sufficient airflow reaches the chassis front panel intake vents and that adequate clearance for the exhaust vents is provided at the rear panel.

During normal system operation, all front and rear peripheral expansion slots must either be populated by an expansion card or covered by an I/O blank panel. This will ensure proper airflow and emissions control within the chassis.

To allow proper airflow and to help prevent overheating, ensure that obstructions to airflow are no closer than 12" (304.8 mm) to the front or rear panels of the chassis.

## CPU Card

The CPU card has to be installed in chassis slot 8 and 9 and is combined with a companion rear I/O Transition Module.

When connecting devices, the following considerations must be made:



**CAUTION.** *Always power-off the system and disconnect all power cords from their source before connecting or disconnecting cables for peripheral devices.*

These devices can be attached to both the CPU card *and* the Transition Module:

- VGA: two display devices can be attached at the same time, but video intensity will be slightly reduced for each device
- Ethernet: two Ethernet connections can be made, but only one will be active; the user can select which one via the BIOS settings.

These devices can only be attached to the CPU card *or* the Transition Module:

- PS/2 mouse and keyboard (KB)
- Serial ports 1 and 2 (COM1 and COM2)
- Parallel port

**Figure 4: CPU Card**

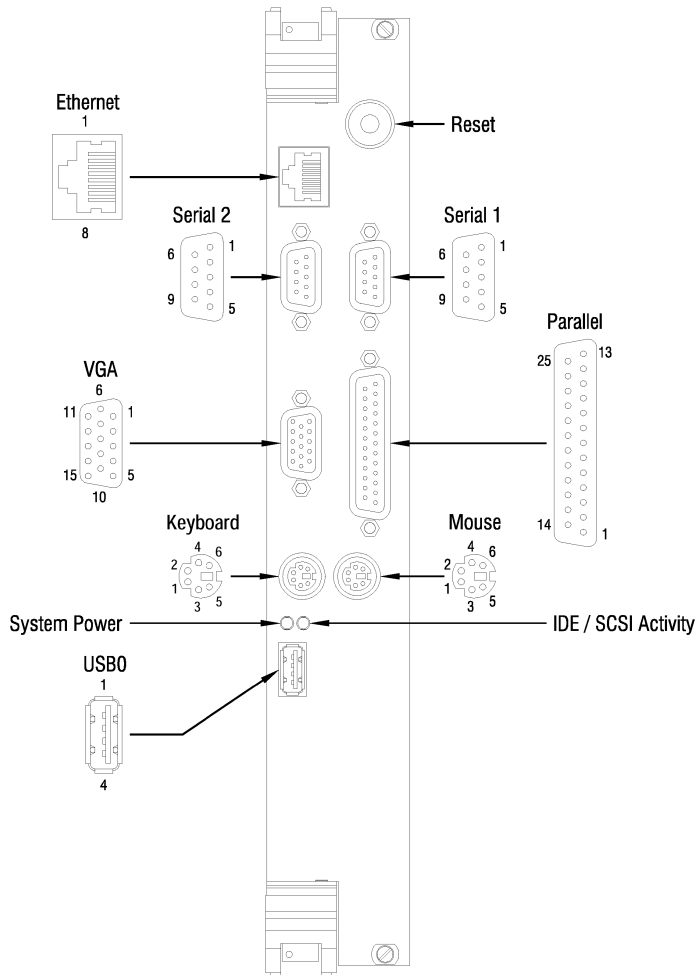
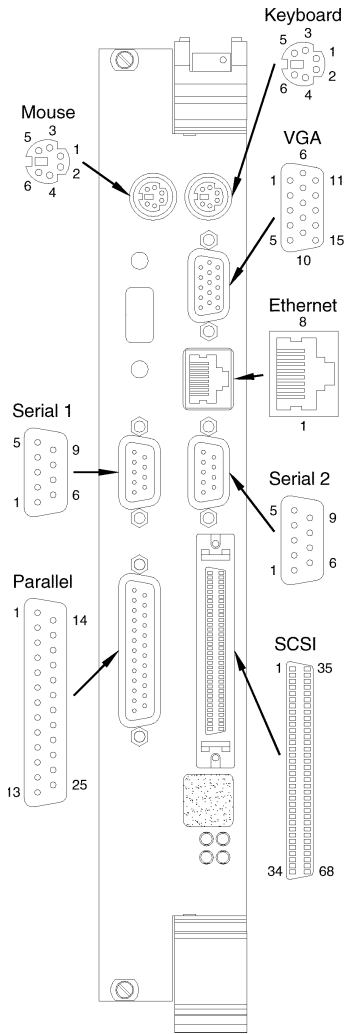


Figure 5: Companion Rear I/O Transition Module



## Technical Data

### Chassis Specifications

Listed in the tables below are environmental ranges and system specifications for the chassis.

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**NOTE:** *These specifications are subject to change without notice.*

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### Environmental

The chassis is designed to meet the following NEBS / ETSI standards:

	<b>Operating</b>	<b>Non-Operating</b>
<b>Temperature</b>	0 to 35 °C (32 to 102 °F)	-40 °C (-40 °F) to 85 °C (185 °F)
<b>Humidity</b>	5–90%, non-condensing	0–95%, non-condensing
<b>Shock</b>	20 G @ 10 ms	
<b>Vibration</b>	1 G @ 5–100 Hz	3 G @ 50–500 Hz
<b>Altitude</b>	6570 ft (2,000 m) maximum	50,000 ft (15,240 m)
<b>Earthquake</b>	Zone 4: 1.75 G @ 2 and 5 Hz	

### System

**Dimension:** 12U H (21") x 19" W x 16.8" D (533.75 mm H x 483 mm W x 427 mm D)

NOTE: Rack-Mount Vertical Supports add 1.75" (44.45 mm) to the chassis width.

**Construction:** Heavy-gauge steel

**Weight:** Approximately 150 lbs. (68 kg), configured with components for rack-mount installation

## CPU Card Specifications

### Environmental

Environmental tolerances are listed in the following table:

	<b>Operating</b>	<b>Non-Operating</b>
<b>Temperature</b>	0 to 57 °C (32 to 134.6 °F) at 200 LFM <sup>†</sup>	-40 to 70 °C (-40 to 158 °F)
<b>Humidity</b>	5 — 95% @ 40 °C, non-condensing	0 — 95% @ 40 °C, non-condensing
<b>Shock</b>	1 G @ 10 ms	30 G @ 10 ms
<b>Vibration</b>	0.25 G @ 5 — 150 Hz	5 G @ 5 — 150 Hz
<b>Altitude</b>	15,000 ft (4,572 m)	50,000 ft (15,240 m)

<sup>†</sup> See the cooling conditions outlined below for extended temperature specifications.

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**NOTE:** *These specifications are subject to change without notice.*

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### Cooling

Airflow requirements for the CPU card are listed in the following table:

<b>Airflow</b>	600 LFM	400 LFM	200 LFM	100 LFM	0 LFM
<b>Maximum Ambient</b>	69 °C (156.2 °F)	66 °C (150.8 °F)	57 °C (134.6 °F)	44 °C (111.2 °F)	Not Recommended



**CAUTION.** *Ambient temperature is measured at the leading edge of the CPU heatsink with a 433 MHz processor installed and all components fully populated*

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**NOTE:** *The table lists the minimum unimpeded airflow in linear feet per minute (LFM) required across the processor for operations at the specified ambient temperature at sea level.*

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## System

System specifications are listed in the following table:

<b>CPU</b>	Intel® Celeron™ Processor:								
	366 MHz								
	PPGA package (370-pin socket: PGA370)								
<b>Chipset</b>	Intel 440BX AGPset								
<b>Cache</b>	128 KB integrated Level 2 write-back cache operating at full clock speed								
<b>Memory</b>	Two (2) 168-pin sockets organized in two (2) banks, supporting:								
	Up to 512 MB (or higher as technology becomes available)								
	2/4/8/16/32 x 72, PC100 DIMM's								
	+3.3 V unbuffered SDRAM								
	Parity/ECC or Non-Parity								
	Single bit error correction, double bit detection (ECC mode only)								
<b>Addressing</b>	Real and protected mode supported								
	Real address mode:20-bit								
	Protected address mode:16-bit on ISA bus, 32-bit on PCI local bus								
<b>Data Path</b>	64-bit on-board processor bus at 66 or 100MHz								
	32-bit on-board PCI bus at 33 MHz								
<b>Flash Memory</b>	4 Mb (512 Kb x 8)								
<b>Clock/Calendar</b>	Embedded Real-Time Clock accurate to +/- 12 minutes/year, at 25 °C; includes 256 bytes of CMOS in NVRAM								
<b>Power Requirements w/ 512 MB SDRAM</b>	<table> <tr> <td>Input Power</td> <td>65 W max.</td> </tr> <tr> <td>+5 V</td> <td>13.0 A max. / &lt; 8.0 A typ.</td> </tr> <tr> <td>+12 V</td> <td>0.1 A</td> </tr> <tr> <td>-12 V</td> <td>0.1 A</td> </tr> </table> <p>Note: These values represent all components fully-populated.</p>	Input Power	65 W max.	+5 V	13.0 A max. / < 8.0 A typ.	+12 V	0.1 A	-12 V	0.1 A
Input Power	65 W max.								
+5 V	13.0 A max. / < 8.0 A typ.								
+12 V	0.1 A								
-12 V	0.1 A								
<b>Battery</b>	CR2032 Lithium (Li/MnO2)								
<b>Form Factor</b>	6U x 8HP x 160 mm, PICMG® / CompactPCI® compliant (Complies with IEEE 1101.1 and 1101.10 mechanical requirements)								

## Certifications and Compliance

### CE Mark Compliance

#### EMC Compliance Directive

**OTS9100 Series 10 Gb/s SONET/SDH module installed in the OTS9000 Optical Test System** meets the essential requirements per Article 10 of Directive 89/336/EEC for Electromagnetic Compatibility using the Technical Construction File (TCF) Route.

Competent Body issuing Certificate of Conformity: TÜV Product Service

Listing of Harmonized Standards applied:

EN 55022 Class A	Radiated and Conducted Emissions
EN 61000-3-2	Quasi-stationary Current Harmonics
EN 61326: 1997	Immunity
IEC 1000-4-2	ESD Immunity Performance Criterion B <sup>1</sup>
IEC 1000-4-3	Radiated Immunity Performance Criterion A <sup>1</sup>
IEC 1000-4-4	EFT Burst Immunity Performance Criterion B <sup>1</sup>
IEC 1000-4-5	Fast Surge Immunity Performance Criterion B <sup>1</sup>
IEC 1000-4-6	Conducted Immunity Performance Criterion A <sup>1</sup>
IEC 1000-4-11	Voltage Interruptions Performance Criterion B <sup>1</sup>

<sup>1</sup> Specified by EN 61326

*Conditions:*

- ❖ *Requires the following option - OTS9000 Option E1*
- ❖ *Equipment must be installed within a proximity of no less than 70m to any radio service to minimize possible interference. If interference is unavoidable, further actions may be required. Contact Tektronix for consultation.*

#### Low Voltage Directive

**The OTS9000 Optical Test System** conforms to the requirements of the Low Voltage Directive 73/23/EEC as amended by 93/68/EEC by conforming to:

EN60950/A4 + A11:1997	Safety of information technology equipment, including electrical business equipment.
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## Safety Approvals

The OTS9000 Optical Test System conforms to the following safety standards.

U.S. Nationally Recognized Testing Laboratory Listing      UL1950/3rd Edition:1995

Canadian Certification      CAN/CSA C22.2 No. 950-95

German Certification      EN60950/A4 + A11:1997

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***NOTE:*** *The mainframe bears the marking "RadiSys Model CP80-12-TEK1"*

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# Getting Started

This chapter describes the preparation and initial setup of the OTS9000.



**WARNING.** Before starting-up the system, observe the General Safety Summary.

Before starting-up the system, observe the General Safety Summary and check the following items:

- All unoccupied CompactPCI® peripheral expansion slots are covered by blank panels.
- Blank panels cover all unoccupied bays for optional modules.
- All modules are properly installed and firmly secured in the chassis.
- The Power Cord is firmly secured to the Power Entry Module.
- The key lock for each Power Supply is switched to the ON position (locked).
- All cables for media and peripheral devices are properly attached.

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**NOTE:** For European use, it is recommended that high quality shielded cables and option 81 peripherals be used to ensure lower emissions.

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- If the chassis is installed in a rack, the chassis support rails and vertical supports are properly installed and firmly secured.
- All filter covers are installed.
- Keyboard settings are connected to CPU.

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**NOTE:**

1. LEDs and other indicators will differ for each installed module. Consult the individual module manuals for proper start-up procedures and specific module information.
  2. Keyboards from some manufacturers may cause keyboard errors during system use. To avoid these errors, Tektronix recommends use of the computer keyboard offered as an option to the OTS9000 system, Tektronix part number 119-6216-00.
-

## Start-Up the System

To start-up the system perform the following:

1. Attach all necessary peripheral devices to the appropriate connectors on the CPU card and/or the Transition Module.

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**NOTE:** *If using an Ethernet LAN connection, the default setting uses the rear panel connection. This may be changed to the front panel connection by modifying the setting in the BIOS.*

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2. Turn the Power Switch to the ON position:

All LEDs light briefly.

The Fan Modules will begin operating.

The cooling fans in the Power Supplies will begin operating.

Each CPU card and/or peripheral card will begin its own Power-On Self Test

Hard drives and other devices will begin operating.

3. Observe the following events to confirm that the system has successfully started:

The green LEDs on each Power Supply are lit.

The green LED on each Fan Module is lit.

Also ensure that all cables for media and peripheral devices are properly attached.

4. Run the Setup Utility if you need to change any settings to match your requirements.

The BIOS (Basic Input/Output System) Setup Utility allows you to configure the operations of the CPU card. To access the Setup Utility, press F2 when prompted during the Power-On Self Test (POST).

The Setup Utility displays the configuration options and values that apply to all installed components. The Setup Utility display allows you to access all possible settings via appropriate menus.

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**NOTE:** *If the instrument contains the E1 option, then all connections to the CPU card must be made from the rear panel. Do not remove the front panel plate. This plate is required for lower emissions and CE mark conformance.*

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The setup item default setting is as follows (This table lists all optional on-board peripherals installed. The Boot and Exit menus do not have “default” values):

System Time	Current (Hours, Minutes, Seconds)
System Date	Current (Month, Day, Year)
Legacy Diskette A	1. 44/ 1.25 MB 3½”
Legacy Diskette B	Disabled
IDE Adapter Type	Auto (all 4 possible drives)
Memory Cache	Enabled
Cache System BIOS Area	Write Protect
Cache Video BIOS Area	Write Protect
Cache Base 0 — 512 KB	Write Back
Cache Base 512 — 640 KB	Write Back
Cache Extended Memory Area	Write Back
Cache A000 — EFFF	Disabled (all regions)
Boot Summary Screen	Enabled
Floppy Check	Disabled
Quiet Boot (Graphics)	Enabled
POST Errors	Enabled
Hard Disk Pre- Delay	3 sec.
Keyboard Numlock	Auto
Key Click	Disabled
Keyboard Auto- Repeat Rate	30/ sec
Keyboard Auto- Repeat Delay	1/ 2 sec
Serial Port A	3F8/ IRQ4
Modem Configuration	Disabled
Serial Port B	2F8/ IRQ3
Modem Configuration	Disabled
Parallel Port	Bi- Directional, 378, IRQ7
Floppy Disk Base I/ O Address	Primary
Local Bus IDE Adapter	Disabled
ECC Config	ECC
Watchdog Timer Status	Disabled
Watchdog Timer Delay	1. 2 sec
Thermal Duty Cycle	37.5%
PCI IRQ Line 1 — 4	Auto Select (all IRQ lines)
USB IRQ Enable	Yes
Latency Timer	Auto
Cache Line Size	Auto
PCI/ PNP ISA UMB Region Exclusion	Available (all regions)
PCI/ PNP ISA IRQ Resource Exclusion	Available (all IRQ’s)
Embedded AGP VGA	Enabled
Embedded Ethernet	Enabled (The Ethernet controller uses PCI IRQ line 1 (INTA)).
Ethernet Port	Rear (Chassis) Panel
Embedded Adaptec SCSI Adapter	Enabled
PS/ 2 Mouse	Auto Detect

On- board Speaker	Enabled
CPU BIOS Update	Enabled
Plug & Play O/ S	No
Secured Setup Configuration	Yes
Reset Configuration Data	No
Large Disk Access Mode	DOS
Password on Boot	Disabled
Fixed Disk Boot Sector	Normal
Diskette Access	Supervisor
Virus Check Reminder	Disabled
System Backup Reminder	Disabled
Power Savings	Disabled
Standby Timeout	Off
Auto Suspend Timeout	Off
Hard Disk Timeout	Disabled
Video Timeout	Disabled
Resume on Modem Ring	Off
Resume on Time	Off
Resume Time	00: 00: 00 (24- hour format)
Console Redirect Port	Disabled
Console Redirect Baud Rate	9600

### Equipment Return

If return of an OTS9000 system is required, the instrument **must be** shipped with its original packaging and palletized.

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***NOTE:*** *If the original packaging is not used and if the instrument is not palletized, damage may occur to the instrument during shipment.*

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If the original packaging is not available, contact your local Tektronix sales representative to assist you. Refer to the Tektronix web-site at [www.tektronix.com](http://www.tektronix.com) to find the Tektronix sales representative for your area.