

Service Reference Guide HP Compaq vc4815 Thin Client

Document Part Number: 480421-001

January 2008

Download from Www.Somanuals.com. All Manuals Search And Download.

© 2008 Hewlett-Packard Development Company, L.P.

HP, Hewlett Packard, and the Hewlett-Packard logo are trademarks of Hewlett-Packard Company in the U.S. and other countries.

Compaq, and the Compaq logo are trademarks of Hewlett-Packard Development Company, L.P. in the U.S. and other countries.

Microsoft, Windows, and Windows NT are U.S. registered trademarks of Microsoft Corporation.

Transmeta, the Transmeta logo, Crusoe, the Crusoe logo, and combinations thereof are trademarks of Transmeta Corporation in the U.S.A. and other countries.

All other product names mentioned herein may be trademarks of their respective companies.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express limited warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

This document contains proprietary information that is protected by copyright. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of Hewlett-Packard Company.

WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

Service Reference Guide HP Compaq vc4815 Series Thin Client First Edition (Jan 2008) Document Part Number: 480421-001

Contents

Product Description

Network Firmware	
HP Compag Thin Client vc4815 Series	
Serial Number Location	
Connecting USB Equipment	1–6
Locating Additional Information	

Spare Parts Lists

vc4815 Series Spare Parts List	

HP vc4815 Series Setup (F10) Utility

Using HP vc4815 Series Setup (F10) Utility	
--	--

Diagnostics and Troubleshooting

Diagnostic Front Panel LEDs and Audible Codes	
Diagnostie i tone i anei EED's ana i taatote codes	

Appendix A vc4815 Serial ports definition

<u>www.hp.com</u>

Upload the Flash Image and	system BIOS
Upload the Flash image and BIOS	
Thin Client vc4815 Specifica	tions 6-1

iv

<u>www.hp.com</u>

Service Reference Guide

1

Product Description

The HP Compaq Thin Client vc4815 Series are Redflag Linux-based terminals that connect over a network to a server where all processing and storage occurs. Because of the nature of the products, troubleshooting is significantly simpler than on a standard PC and previous thin clients.

The Graphical User Interface (GUI) is Chinese on all thin clients. If you are using a foreign language keyboard, you will need to set localized settings to perform the localization between a server-based application and the device, but interaction with the unit itself remains in Chinese.

Network Firmware

PXE (Pre-boot Execution Environment) is supported on all HP Compaq Thin Client vc4815 Series products.

PXE allows a client to boot from a server on a network prior to booting the embedded Operating System (OS) from the local Flash module. As long as the system is connected to AC power, the Network Interface Controller (NIC) on a PXE-enabled client remains powered even when the system is turned off. This allows a network administrator to remotely wake up the unit and perform various management tasks, including loading the operating system and other software onto the device from a server over the network.

Service Reference Guide

Product Description

HP Compaq Thin Client vc4815 Series



Service Reference Guide

HP Compaq Thin Client vc4815 Series



1 PS/2 connectors (2)	5	Power connector
2 Serial connectors (4)	6	Lock Slot
3 Monitor connector	7	Ethernet RJ-45 connector
4 Universal Serial Bus (USB) connectors (2)	8	Parallel connector

CAUTION: The vc4815 Series power cord connector is for use only with the supplied power adaptor. Replace only with the same or equivalent type as recommended by the manufacturer.

Service Reference Guide

Serial Number Location

The serial number is displayed on the side of the unit.



Connecting USB Equipment

USB mouse devices and keyboards do not require special drivers and are considered to be plug and play peripherals. Certain USB devices such as printers and modems, however, may require special drivers. For information on requirements for special drivers, refer to the documentation that is included with the USB device.

Service Reference Guide

<u>www.hp.com</u>

Locating Additional Information

The following documentation is available to support these products:

- Quick Setup
- Hardware Reference Guide
- Redflag Linux User manual
- Customer and Service Notifications, Bulletins and Advisories
- Quickspecs

Documentation, white papers, and drivers are subject to change. For the latest HP thin client documentation, visit the following Web site: http://h18004.www1.hp.com/products/thinclients/software.html

Service Reference Guide

Spare Parts Lists

vc4815 Series Spare Parts List

The spare parts tables that follow provide a listing of the spare parts available for the Thin Client vc4815 Series.

vc4815 Series Spare Parts Table	
Description	Spare Part
	Number
SPS-Base, vc4815 512F/512R Linux	458813-001
SPS-Base, vc4815 1GBF/512R Linux	458814-001
SPS-Base, vc4815 2GBF/512R Linux	458815-001
SPS-KYBD USB, Basic, Vista-PRC	435382-AA1
SPS-MOUSE, OPTICAL CARBONITE	390938-001

For a full list of supported and leveraged Hewlett-Packard and third party options, go to:

http://h18004.www1.hp.com/products/thinclients/software.html

Service Reference Guide

3

HP vc4815 Series Setup (F10) Utility

Using HP vc4815 Series Setup (F10) Utility

The Setup utility can be accessed only by turning the computer on or restarting the system. To access the Setup Utility menu, complete the following steps:

- 1. Turn on or restart the computer.
- 2. When the **F10 <BIOS Setup>** message displays in the task bar at the bottom of the screen, press the **F10** key.
- If you do not press the F10 key while the message is displayed, you must restart the computer again to access the utility. When the F10 Post Screen display is set to zero seconds, it may be necessary to press and hold F10 on the keyboard, then power on the computer.
 - 3. A choice of five menu headings and five task headings appears in the Setup Utility menu:

Menu Headings: System Information, Standard CMOS Features, Advanced BIOS Features, Integrated Peripherals, and Power Management Setup.

Task Headings: Load Defaults Setting, Set Supervisor Password, Set User Password, Save Setting and Exit, and Exit without Saving.

Service Reference Guide

<u>www.hp. com</u>

- 4. Use the arrow (up and down, or left and right) keys to select the appropriate heading, then press the **Enter** key. To return to the Setup Utility menu, press the **Esc** key.
- 5. To apply and save changes, select Save Setting and Exit Setup.
 - If you have made changes that you do not want applied, select Exit without Saving.

[®] To reset to factory settings, select **Load Defaults Setting.** This option will restore the original factory system defaults.

CAUTION: Do NOT turn the computer power OFF while the ROM is saving your F10 Setup changes because the CMOS could become corrupted. It is safe to turn off power to the computer ONLY after you exit the F10 Setup screen.

Heading	Option	Description
System		Lists:
Information		- Product name
		- BIOS Version
		- BIOS Release Date
		- System Chipset Type
		- Processor type
		- Processor Speed
		- CPU ID
		- DDR Memory Size
		- UUID (Universal Unique ID)
		- Chassis Serial Number
		- Set Asset TAG number
		- Asset Tag Number

vc4815 Series Setup Utility

Support for specific Setup options may vary depending on your hardware configuration.

Service Reference Guide

Heading	Option	Description
Standard CMOS Features	System Date	Allows you to set the date
	System Time	Allows you to set the time.
	IDE channel 0 Master	Indicates ATA Flash settings
	IDE Channel 1 Master	
	Halt on	Allows you to select system response when POST Error has been detected.
Advanced BIOS Features	Quick Power On Self Test	Allows the system to skip certain tests while booting so the unit has a faster boot.
	Hard Disk Boot Priority	Allows Setting of ATA Flash Disk or Bootable Add-in Cards Boot Priority
	First Boot Device	Select Boot Device Priority. The default is set to Hard Disk.
	Second Boot Device	Select Boot Device Priority
	Third Boot Device	Select Boot Device Priority
	Boot other Device	Enable/disable boot from other device
	Bootup NumLock Status	Select Power On state for NumLock.
	Security Option	Select whether the Password is required every time the system boots or only when you enter Setup.

Service Reference Guide

www.hp.com

Integrated Peripherals USB Controller Enable/disable USB controller Integrated Audio Enable/disable onboard AC97 audio controller Network Controller Enable/disable onboard LAN device Onboard Serial port 1 Select serial port base IO port address and IRQ Onboard Serial port 2 Select serial port base IO port address and IRQ Onboard Serial port 3 Onboard Serial port 4 Onboard Serial port 4 Onboard Serial port 3 Onboard Parallel Select parallel port base IO port address and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Use DMA Select DMA channel if parallel is Operated in ECP mode. Power Manage- ment Setup Restore On AC/Power Loss Allows you to set off, On, Last Sta AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo	Heading	Option	Description
Integrated Audio Enable/disable onboard AC97 audio controller Network Controller Enable/disable onboard LAN device Onboard Serial port 1 Select serial port base IO port address and IRQ Onboard Serial port 2 Onboard Serial port 3 Onboard Serial port 4 Onboard Serial port 4 Onboard Parallel Select parallel port base IO port address Port and IRQ Parallel Mode Select parallel port base IO port address Port ECP Mode Use DMA Select parallel port transfer mode ECP Mode Use DMA Select DMA channel if parallel is Operated in ECP mode. Power Manage- ment Setup Restore On AC/Power Loss Allows you to set off, On, Last Sta Ac/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Resume On Alarm, allo	Integrated Peripherals	USB Controller	Enable/disable USB controller
Network Controller Enable/disable onboard LAN device Onboard Serial port 1 Select serial port base IO port address and IRQ Onboard Serial port 2 Onboard Serial port 3 Onboard Serial port 4 Onboard Serial port 4 Onboard Parallel Select parallel port base IO port address Port Parallel Mode Select parallel port transfer mode ECP Mode Use DMA Select parallel port transfer mode Power Manage- ment Setup Restore On AC/Power Loss Allows you to set off, On, Last Sta for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo		Integrated Audio	Enable/disable onboard AC97 audio controller
Onboard Serial port 1 Select serial port base IO port address and IRQ Onboard Serial port 2 Onboard Serial port 3 Onboard Serial port 3 Onboard Serial port 4 Onboard Parallel Select parallel port base IO port address Port and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Select DMA channel if parallel is Use DMA Operated in ECP mode. Operated in ECP mode. Power Management Setup Restore On AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo		Network Controller	Enable/disable onboard LAN device
Onboard Serial port 2 Onboard Serial port 3 Onboard Serial port 3 Onboard Serial port 4 Onboard Parallel Select parallel port base IO port address Port Port and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Use DMA Select DMA channel if parallel is Operated in ECP mode. Power Manage- ment Setup Restore On AC/Power Loss Allows you to set off, On, Last Sta AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Resume On Alarm, allo		Onboard Serial port 1	Select serial port base IO port address and IRQ
Onboard Serial port 3 Onboard Serial port 3 Onboard Serial port 4 Onboard Parallel Select parallel port base IO port address Port and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Select DMA channel if parallel is Use DMA Operated in ECP mode. Operated in ECP mode. Power Restore On AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo		Onboard Serial port 2	
Onboard Serial port 4 Onboard Parallel Select parallel port base IO port addres Port and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Select DMA channel if parallel is Use DMA Operated in ECP mode. Power Restore On Management Setup Allows you to set off, On, Last Sta Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Resume On Alarm, allo		Onboard Serial port 3	
Onboard Parallel Select parallel port base IO port addres Port and IRQ Parallel Mode Select parallel port transfer mode ECP Mode Select DMA channel if parallel is Use DMA Operated in ECP mode. Power Restore On Manage- Allows you to set off, On, Last Sta Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo		Onboard Serial port 4	
Parallel Mode Select parallel port transfer mode ECP Mode Select DMA channel if parallel is Use DMA Operated in ECP mode. Power Restore On Manage- AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Resume On Alarm, allo		Onboard Parallel Port	Select parallel port base IO port address and IRQ
ECP Mode Use DMA Select DMA channel if parallel is Operated in ECP mode. Power Manage- ment Setup Restore On AC/Power Loss Allows you to set off, On, Last State AC/Power Loss Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Wake on Ring Resume On Enable/disable Resume On Alarm, allo		Parallel Mode	Select parallel port transfer mode
Power Restore On Allows you to set off, On, Last Sta Management Setup AC/Power Loss Allows you to set off, On, Last Sta Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Enable/disable Wake on Ring Resume On Enable/disable Resume On Alarm, allo		ECP Mode Use DMA	Select DMA channel if parallel is Operated in ECP mode.
ment Setup Resume on PME Enable/disable system wakeup capabil for onboard LAN device and PCI Card Wake on Ring Resume On Enable/disable Resume On Alarm, allo	Power Manage-	Restore On AC/Power Loss	Allows you to set off, On, Last State
Wake on RingEnable/disable Wake on RingResume OnEnable/disable Resume On Alarm, allo	ment Setup	Resume on PME	Enable/disable system wakeup capability for onboard LAN device and PCI Card
Resume On Enable/disable Resume On Alarm, allo		Wake on Ring	Enable/disable Wake on Ring
Alarm set Date(of month), Resume Time(hh:mm:ss)		Resume On Alarm	Enable/disable Resume On Alarm, allow to set Date(of month), Resume Time(hh:mm:ss)
Load Defaults Select Yes or No (Y/N) Setting	Load Defaults Setting		Select Yes or No (Y/N)

vc4815 Series Setup Utility (Continued)

Support for specific Setup options may vary depending on your hardware configuration.

Service Reference Guide

www.hp.com

Heading Option Description

vc4815	Series Se	tup Utility (Continued)
Heading	Option	Description
Set Supervisor Password		 Allows you to set and enable the administrative password. If the administrative password is set, it is required to change the Setup options, flash the ROM, and make changes to certain plug and play settings under Windows
Set User Password		Allows you to set and enable the user password. When the user password is set, it prevents unauthorized access to the user's setup. User password provides read only access to Setup ontions
Save Setting and Exit		Saves data to CMOS
Exit without Saving		Exits the Setup Utility without saving any changes.

Support for specific Setup options may vary depending on your hardware configuration.

Service Reference Guide

4 Diagnostics and Troubleshooting

POST Diagnostic Front Panel LEDs and Audible Codes

This section covers the front panel LED codes as well as the audible codes that may occur before or during POST that do not necessarily have an error code or text message associated with them.

If you see flashing LEDs on a PS/2 keyboard look for flashing LEDs on the front panel of the computer and refer to the following table to determine the front panel LED codes.

Recommended actions in the following table are listed in the order in which they should be performed.

Diagnostic Front Panel LEDs and Audible Codes

Possible Cause	Beeps & LED blink	Activity	Recommended Action
Computer on.	None	Green Power LED On.	None
Pre-video memory	5	Green Power LED flashes five times, once every second, followed by a two second pause. Beeps stop after fifth iteration but LEDs continue until problem is solved.	 CAUTION: To avoid damage to the DIMMs or the system board, you must unplug the computer power cord before attempting to reseat, install, or remove a DIMM module. 1. Reseat DIMMs. 2. Replace DIMMs one at a time to isolate the faulty module. 3. Replace third-Party memory with HP memory. 4.Replace the system board

Service Reference Guide

Diagnostic Front Panel LEDs and Audible Codes

Possibl e Cause	Beeps & LED blink	Activity	Recommended Action
System unable	None	System does not power on	Press and hold the power button for less than 4 seconds.
to power on.		and LEDs are not flashing.	If the hard drive LED turns green, the power button is working correctly. Then, Replace the system board.
			OR
			If the hard drive LED does not turn on green
			then:
			1. Check that the unit is plugged into a working AC outlet.
			2. Check that both power supply cables are properly connected
			to the system board.
			3. Check to see if the 5V_aux light on the system board is turned on. If it is turned on, then replace the power button
			harness. If the problem persists, replace the system board.
			4. If the 5V_aux light on the system board is not turned on, remove the expansion cards one at a time until the 5V_aux light on the system board turns on. It the problem persists, replace the power adapter.

* Replacing the system board should ONLY be the last resort.

** Replacing the power supply should ONLY be the last resort.

Service Reference Guide

Reload Flash Image and BIOS

System Requirements

To create a recovery device for the purpose of reflashing or restoring the software image on the ROM, you will need the following:

- One or more HP Compaq vc4815 Series Thin Clients
- USB flash device 512MB Compatible USB flash devices (drive keys) are available from www.diskonkey.com.

This restore method will not work with all USB flash devices. USB flash devices with multiple partitions generally do not support this restore method. The range of USB flash devices available on the market is constantly changing. Not all USB flash devices (drive keys) have been tested with the HP Compaq Thin Client Imaging Tool.

USB CD-ROM drive for thin client (if using the ISO Image option)

Before using the utility, you must download the appropriate image from <u>http://www.hp.com/products/thinclientsoftware.</u>

Service Reference Guide

Hainan Image Reloading

1, Download the Image file *.gho from web.

2, Make a DOS Bootable USB flash drive(>=512M). Copy the image file and

ghost.exe (ver11.0.1) to the USB flash drive.

3, Boot from the USB device. Run ghost.exe.

System BIOS Update

- 1. Download the SoftPaq .EXE file to a directory on your hard drive.
- 2. Execute the downloaded file and follow the on-screen instructions.
- 3. Choose one of the following three options when presented:
- Create BIOS Flash Diskette,
- Create BIOS Flash DriveKey
- 4, Boot Unit with the diskette or Flash DriveKey made last in step. Do not power off or reset the unit during flash BIOS process.

<u>www.hp.com</u>

6

Thin Client vc4815 Specifications

	Specifications - vo	:4815 Series	
	ltem	Description	
GV665PA#AB2 vc4815	Processor	VIA C7 1GHz	
vc4815 LNX 512F/512R	Chipset	VIA CN700 + 8237R	
PRC	Operating System	Redflag Linux (Chinese vers	sion only)
GV666PA#AB2 vc4815 LNX 1GBF/512R PRC	Flash Memory	Apacer ADMII series 44PIN 512 MB, 1GB, 2GB 2 slots	180 degree DOM,
GV667PA#AB2 vc4815 LNX 2GBF/512R	Memory	HP 512 MB DDR2 533 SDRAI to 533 One slot (NOTE: 16 MB of system RAI	M or DDR2 667 SDRAM downgraded M is reserved for graphics memory)
PRC	Graphics	VIA S3 Unichromo Pro Graphic integrated	
	PCI Expansion	No	
	Browser	Firefox Explorer with java su	ipport
	Client Management Software	Altiris Deployment Solution	(client agent)
	Terminal Personalities Standard	Yes, terminal emulation too	ol under Linux
	Power adapter	65W	
	Keyboard	USB or PS/2 (both supporte Keyboard included with ev keyboard (USB or PS/2) var	d) very thin client. Type of included ies by region
	Mouse	USB or PS/2 (both supporter Keyboard included with ev keyboard (USB or PS/2) var	d) very thin client. Type of included ies by region
	Foot stand	Yes	

Service Reference Guide

<u>www.hp.com</u>

		1	Thin Client vc4815 Specifications		
	Specificatio	ons - vc4815 Serie	es		
ltem	Description				
Memory	Flash Memory	512 MB , 1GB, 2GE	3, Apacer ADMII series 44PIN 180 degree DOM		
	System Memory	512 MB DDR-II SE NOTE: 16 MB of sys	ORAM stem RAM is reserved for graphics memory		
Graphics	VIA S3 Unichromo P	ro VGA integrated			
	Mode	Refresh Rates	Color Depth		
	800 x 600	60-120 Hz	16/32 bit		
	1024 x 768	60-100 Hz	16/32 bit		
	1152 X 864	60-85 Hz	16/24 bit		
	1280 x 1024	60-85 Hz	16/32 bit		
	1600 x 1200	60-85 Hz	16/24 bit		
	640x480 800x600 1024x768 1280x720 1280x768 1280x800 1280x1024 1360x768 1366x768 1440x900 1600x1200 1920x 1440 1440x 900 1680 x 1050 1920x1200	60-160 Hz 60-120 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-85 Hz 60-75 Hz 60 Hz 60 Hz 60 Hz			
Input/Output/	Keyboard	HP USB or PS2 Star	ndard Keyboard		
Peripheral Support	Mouse	HP USB or PS2 two	-button scroll mouse		
	Printer	Local and/or netw support statemen	vork printers (RDP, ICA, LPD) as per the printer t		
	Video	VIA S3 Unichromo	Pro VGA integrated		
Security	One security lock slo	ot (cable lock sold sep	parately)		
Terminal Server Protocols	Integrated rdesktop Emulation software	RDP client (1.4.1) and re-development for fi	RDP client (1.4.1) and Citrix ICA 10.0 client support. Terminal re-development for finance		
Networking	10/100 BaseT Fast Et	hernet, twisted pair (F	RJ-45)		
	TCP/IP with DNS and	d DHCP, Direct Conne	ection through RS-232		
	Point-to-Point Proto	col (PPP),PPPoE, PPTP,	EAP, PEAP, Wake on LAN (WOL), PXE		

Service Reference Guide

<u>www.hp.com</u>

I/O ports and connectors	Four USB ports (two in front, two in rear), 4 serial, one parallel, one RJ-45, two PS/2
Resident Operating System	Redflag Linux
Session Allocation Managers/Session Brokers	HP PC Session Allocation Manager Software for the Consolidated Client Infrastructure, Citrix Desktop Broker for Virtual Desktop Infrastructure
Server OS Compatibility/ Support	Open source Terminal Emulation: CT100, VT100, VT220, VT382, Xenix, ANSI
	Terminal service: Microsoft® Windows® NT 4.0 Server, Windows NT 4.0 Terminal Server Edition, Windows 2000/2003 Server families, Windows 2000/2003 Server Terminal Services, Windows 2000 Advanced Server, Windows 2000 Advance Server Terminal Services Citrix:
	Citrix Presentation Server 4.0, including the Desktop Broker feature, Citrix Metaframe Presentation Server 3.0, Citrix Metaframe XP Presentation Server, Citrix Metaframe 1.x, and Linux Server versions
Software Included	HP Connection Administrator, Firefox Browser, Citrix ICA, rdesktop RDP client (for RDP), Altiris Deployment Solution 6.8 (client agent) preinstalled.
	Terminal Emulation software re-development for finance system. Printing: support screen print, transparent print , 4 auxiliary serial ports terminal emulation & Graphic display
	Flash Player support, txtpad, control panel support
	Chinese input: Pinyin, Wu bi, Qu wei
	Note: Altiris Deployment Solution (management console) available as free download from Altiris at: <u>www.altiris.com/hptc</u>
Languages	Other software available as add-ons (see <u>www.hp.com/support</u> for latest list of available add-ons) Chinese only

Dimensions H x W x D (approximate)	Without stand	235 x 60 x 195 mm	
Weight (approximate)	Without stand	1.9 kg	
Environmental	Temperature range on	50° to 104° F (10° to 40° C)	
	Temperature range off	-22° to 140° F (-30° to 60° C)	
	Humidity	20% to 80% condensing 10% to 95% non-condensing	
	Power ¹	Worldwide auto-sensing 100-240 VAC, 50-60 Hz, energy-sav automatic power-down, surge-tolerant, 65-watt power sup	
Regulatory	Agency	CCC and CB	
Compliance	Environmental	CECP (to be applied after product launch), ROHS complian	
	ESD	4KV for Direct, and 8KV for discharge	
Warranty	Three-year limited hard	Iware warranty	
	NOTE: Certain restrictio	ns apply. Consult the HP Customer Support Center for detail	
Emulations	Emulation	Terminal ID	
	ANSI		
	CT100		
	VT100	VT100, VT220, VT382	
	Xenix		

Service Reference Guide

www.hp.com

Appendix A

HP Compaq vc4815 系列串口定义用户指南

HP Compaq vc4815终端默认具有4个串口,分别为串口一、串口二,串口三、串口四。

定 义 引脚	主口 (串口1)	辅口1 (串口2)	辅口2 (串口3) (TTL)	辅口3 (串口4)
1脚	DCD/ +5V	+5V / DCD	+5V / DCD	+5V / DCD
2脚	RXD	RXD	RXD/TXD	RXD
3脚	TXD	TXD	TXD/RXD	TXD
4脚	DTR/ +12V	DTR/+5V /+12V	NC/DTR	DTR/+5V /+12V
5脚	GND	GND	GND	GND
6脚	DSR	DSR	NC/DSR	DSR
7脚	RTS/+12V	RTS/+12V	NC/RTS	RTS/+12V
8脚	CTS/RXD (TTL)	CTS	RXD/TXD(TTL)	CTS
9脚	RI/TXD (TTL)	RI	TXD/RXD(TTL)	RI

HP Compaq vc4815终端默认出厂设置

定 义 引脚	主口 (串口1)	辅口1 (串口2)	辅口2 (串口3) (TTL)	辅口3 (串口4)
1脚	DCD	DCD	DCD	DCD
2脚	RXD	RXD	RXD	RXD
3脚	TXD	TXD	TXD	TXD
4脚	DTR	DTR	NC	DTR
5脚	GND	GND	GND	GND
6脚	DSR	DSR	NC	DSR
7脚	RTS	RTS	NC	RTS
8脚	CTS	CTS	RXD	CTS
9脚	RI	RI	TXD	RI

注: 辅口2的 2、3脚为RS232, 8、9脚为TTL 主串一的1脚可以提供+5V供电, 8, 9脚可跳选为RXD/TXD的TTL模式



主口(串口1)定义:

定 义 引脚	主口 (串口1)
1脚	DCD/+5V
2脚	RXD
3脚	TXD
4脚	DTR/ +12V
5脚	GND
6脚	DSR
7脚	RTS/+12V
8脚	CTS/RXD
HT.	
9脚	RI/TXD
	(TTL)





跳线器默认如上图所示

COMA_JP1:	更改跳线器将其置左(2连接3),	可为主口	(串口1)	的1脚取+5V
COMA_JP2:	更改跳线器将其置左(2连接3),	可为主口	(串口1)	的4脚取+12V
COMA_JP3:	更改跳线器将其置左(2连接3),	可为主口	(串口1)	的7脚取+12V
COMA_JP4:	更改跳线器将其置左(2连接3),	可为主口	(串口1)	的8脚取RXD
	(TTL电平)			
~ ~ ~ ~ ~ ~ ~				

COMA_JP5: 更改跳线器将其置左(2连接3),可为主口(串口1)的8脚取TXD (TTL电平)

辅口2(串口3)(TTL)定义:

定 义 引脚	辅口2 (串口3) (TTL)
1脚	+5V / DCD
2脚	RXD/TXD
4版	GND
5脉	NC/DSR
7期	NC/RTS
8脚	RXD/TXD(TTL)
9脚	TXD/RXD(TTL)





跳线器默认如上图所示

COMB_JP1: 更改跳线器将其置右(2连接3),可为辅口2(串口3)(TTL)的1脚取 +5VCOMB_JP2: 更改跳线器将其置左(2连接3),可为辅口2(串口3)(TTL)的2脚取 TXD(RS232)信号 COMB_JP3: 更改跳线器将其置左(2连接3),可为辅口2(串口3)(TTL)的3脚取 RXD(RS232)信号 COMB_JP4: 更改跳线器将其置左(2连接3),可为辅口2(串口3)(TTL)的8脚取TXD (TTL电平) 信号 COMB JP5: 更改跳线器将其置左(2连接3),可为辅口2(串口3)(TTL)的9脚取RXD (TTL电平) 信号 COMB_JP6: 插上跳线器 (1连接2), 可为辅口2(串口3)(TTL)的4脚取DTR (RS232) 信号 COMB JP7: 插上跳线器 (1连接2), 可为辅口2(串口3)(TTL)的6脚取RTS (RS232) 信号 COMB JP8: 插上跳线器 (1连接2), 可为辅口2(串口3)(TTL)的7脚取DSR (RS232) 信号

辅口1(串口2)与 辅口3(串口4)定义:

定 义 引脚	辅口1 (串口2)	辅口3 (串口4)
1脚	+5V / DCD	+5V / DCD
2脚	RXD	RXD
3脚	TXD	TXD
4脚	DTR/+5V /+12V	DTR/+5V /+12V
5脚	GND	GND
6脚	DSR	DSR
6脚 7脚	DSR RTS/+12V	DSR RTS/+12V
6脚 7脚 8脚	DSR RTS/+12V CTS	DSR RTS/+12V CTS





跳线器默认如上图所示

COMC_JP1: 更改跳线器将其置下(2连接3),可为辅口1(串口2)的1脚取+5V COMC_JP2: 更改跳线器将其置下(2连接3),可为辅口1(串口2)的7脚取+12V COMCD_JP1:

COMCD_JP1	DTR	+5V	+5V	+12V
辅口1第 4脚	7连接9	5连接7	3连接5	1连接3
辅口4 第4脚	8连接10	6连接8	4连接6	2连接4

COMD_JP1: 更改跳线器将其置下(2连接3),可为辅口3(串口4)的1脚取+5V COMD_JP2: 更改跳线器将其置下(2连接3),可为辅口3(串口4)的7脚取+12V Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com