

# HP 9000 Series 700 Models 715/64, 715/80, and 715/100 Workstations




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The HP 9000 Series 700 Models 715/64, 715/80, and 715/100 workstations, based on the PA7100LC architecture, support the level of performance and functionality needed to meet the most demanding technical and commercial

customers' requirements. The Model 715s feature a new integrated color graphics subsystem as well as optional HCRX graphics accelerators. This winning graphics line-up provides industry-leading performance at a very low cost.

The Model 715s also boast new storage devices, such as 1GB and 2GB internal disk drives and support for the industry-standard 1.44MB 3.5" floppy drive.

Features	715/64	715/80	715/100	Benefits
<b>CPU (PA-RISC 7100LC Processor)</b>				
Bi-Endian switchable				<ul style="list-style-type: none"> <li>• Supports current and future operating systems</li> <li>• Supports multimedia applications without expensive, add-on hardware</li> </ul>
Built-in MPEG decompression				
Clock frequency	64MHz	80MHz	100MHz	
<b>Performance</b>				
Dhrystone 1.1 MIPS	78	97	122	
SPECint92	66.6	83.5	100.1	
SPECfp 92	96.5	120.9	137.0	
Linpack (100x100) MFLOPS(DP)	24.33	30.49	37.84	
SPECrate_int92	1497.82	1866.06	2237.30	
SPECrate_fp92	2281.39	2864.56	3225.85	
<b>Integrated Graphics</b>				
Xmark93	6.55	7.90	8.63	<ul style="list-style-type: none"> <li>• Leadership windowing and vector performance</li> </ul>
PLB93wire/PLBsurf93	43/16	52/20	61/23	
3D vectors (millions)	1.4	1.8	1.6	<ul style="list-style-type: none"> <li>• Visual effect of true color</li> </ul>
Triangle per sec (000s)	26	32	40	
Lighted/shaded quads per sec (000s)	15	18	23	
8-plane color with HP Color Recovery technology				
<b>HCRX Graphics</b>				
Xmark93	91.5	10.72	12.25	<ul style="list-style-type: none"> <li>• Leadership windowing and vector performance</li> </ul>
3D vectors (millions)	1.5	1.9	2.3	
Triangles per sec (000s)	26	32	40	<ul style="list-style-type: none"> <li>• Allows smooth movement of dynamic image</li> <li>• 16.7 simultaneous colors</li> <li>• High-performance hidden surface removal</li> </ul>
Lighted/shaded quads per sec (000s)	15	18	23	
PLB93wire/PLBsurf	45/21	57/26	62/29	
Double buffered + 8 overlay plane 24 plane (HCRX-24)				
<b>HCRX Graphics with Z buffering</b>				
PLB93wire/PLBsurf93	46/49	58/59	68/68	<ul style="list-style-type: none"> <li>• High-performance 3D rendering</li> </ul>
Triangles per sec (000s)	270	340	410	
Lighted/shaded quads per sec (000s)	56	71	86	
<b>CRX-48Z</b>				
PLB93wire/PLBsurf93	N/A	N/A	68/69	<ul style="list-style-type: none"> <li>• Real-time rendering of large 3D models</li> <li>• High-performance rendering allows manipulation of the largest models</li> </ul>
Triangles per sec (000s)	N/A	N/A	600	
Lighted/shaded quads per sec (000s)	N/A	N/A	140	
<b>Graphics Software</b>				
X11/R6, PEX, PHIGS, Starbase, PowerShade				<ul style="list-style-type: none"> <li>• Speed and realism through standards</li> </ul>
<b>Monitors</b> (multisync 1280 X 1024)	17" & 20"	17" & 20"	17" & 20"	<ul style="list-style-type: none"> <li>• Superb image quality and detail</li> </ul>
<b>Memory and Cache</b>				
Memory capacity	32-256MB	32-256MB	32-256MB	<ul style="list-style-type: none"> <li>• Improves application performance</li> </ul>
Instruction/data cache (combined)	256KB	256KB	256KB	
<b>Mass Storage</b>				
Internal/total disk capacity	4/84 GB	4/84 GB	4/84 GB	<ul style="list-style-type: none"> <li>• A wide range of mass storage options</li> <li>• A wide range of removable media options</li> </ul>
Removable storage	CD-ROM, floppy, DDS tape	CD-ROM, floppy, DDS tape	CD-ROM, floppy, DDS tape	
<b>Standard Interfaces</b>				
IEEE 802.3, S/E SCSI-2, EISA (1), RS232 (2), Centronics (1), HIL and PS/2 (miniDIN) (2)				<ul style="list-style-type: none"> <li>• Support for all common industry-standard interfaces</li> <li>• Multimedia capability</li> </ul>
Audio I/O ports				
<b>Operating System</b>	HP-UX 9.05	HP-UX 9.05	HP-UX 9.05	<ul style="list-style-type: none"> <li>• Standards-based operating system</li> </ul>