



# *Compal Electronics, Inc.*

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# Discover (JHL90) Specification

Ver. 0.3



1. Dimension	358.5 mm(W) x 259 mm(D)x 25.4 mm(H) on front side, 39.2 mm on rear side			
2. Weight	2.8 kg with 15.4" WXGA & 6cell battery.			
3. CPU	<ul style="list-style-type: none"> <li>- Intel Penryn : <ul style="list-style-type: none"> <li>➤ Dual core processor; FSB 1066MHz</li> <li>➤ On-die, up to 6MB L2 cache</li> </ul> </li> </ul>			
4. Chipset	<ul style="list-style-type: none"> <li>- Intel Cantiga PM45 + ICH9-M <ul style="list-style-type: none"> <li>➤ Penryn processor support</li> <li>➤ 800 MHz and 1066MHz FSB support</li> </ul> </li> </ul>			
5. Memory	<ul style="list-style-type: none"> <li>- No on board memory</li> <li>- Support DDR-II 667/800MHz</li> <li>- Two SODIMM with 1GB/2GB modules</li> <li>- Easy upgrade for two SODIMM.</li> <li>- Max. 4GB</li> </ul>			
6. ODD	<ul style="list-style-type: none"> <li>- Fixed 12.7mm height SATA Tray Load <ul style="list-style-type: none"> <li>➤ Combo(CD-RW/DVD-ROM)</li> <li>➤ DVD Super Multi</li> <li>➤ Blu-ray Disc Multi</li> </ul> </li> </ul>			
7. HDD	<ul style="list-style-type: none"> <li>- 9.5mm, 2.5" S-ATA HDD support with 80/120/160/250GB (5400rpm) capacity</li> <li>- 9.5mm, 2.5" S-ATA HDD support with 120/160GB (7200rpm) capacity.</li> <li>- Easily removable</li> <li>- Intel Turbo Memory support 2.0(Optional)</li> </ul>			
8. Display	<ul style="list-style-type: none"> <li>- Support 15.4" WXGA(1280 x 800), glare and anti-reflection</li> <li>- Support 15.4" WXGA+(1440 x 900), glare and anti-reflection</li> <li>- Support 15.4" WSXGA+(1680 x 1050), glare and anti-reflection</li> </ul>			
9. Graphics Chip	- nVIDIA NB9P with 512MB			
	Chipset	Size	Bus width	Type
	nVIDIA NB9P	512MB	128bit	GDDR II 32M x 16 * 8



10. Audio	<ul style="list-style-type: none"> <li>- Realtek ALC268</li> <li>- 2 channel HD Audio</li> <li>- Compliant with Universal Audio Architecture</li> <li>- Microphone-in and headphone-out</li> <li>- Internal Microphone support</li> <li>- Microphone array supported (Software solution by Vista)</li> <li>- Volume control: Hot-key control for Vista</li> </ul>
11. PCI-Express card	<ul style="list-style-type: none"> <li>- PCI Express card x1</li> </ul>
12. Comm.	
A. Modem	A. Internal Modem with MDC solution V.92/56K bps; V.90/56K bps
B. LAN	B. Gigabit LAN
C. WLAN	C. Wireless LAN, 802.11a/g/n(Intel Shirley Peak), 802.16e Mobile WiMAX and 802.11abgn(Intel Echo Peak) via PCIe Mini-Card
D. Bluetooth	D. Bluetooth Ver. 2.1 module with USB2.0 interface
E. Camera	E. 2.0 M Pixel CMOS via USB2.0 interface.
13. Keyboard	<ul style="list-style-type: none"> <li>- 85/86 keys support with 101/102 key emulation without stick-point.</li> <li>- Windows key, Application key</li> <li>- Standard pitch, 3.0mm travel length.</li> <li>- Multi-Language support.</li> </ul>
14. Pointing Device	<ul style="list-style-type: none"> <li>- Touchpad</li> </ul>
15. Media card reader	<ul style="list-style-type: none"> <li>- 3-in-1 Card Reader (SD, MMC, MS)</li> </ul>
16. I/O ports	<ul style="list-style-type: none"> <li>- USB 2.0 x 3, all are with Power USB feature</li> <li>- RGB; VGA port x 1, 15pins</li> <li>- S-Video in x 1 (Option, with TV Tuner)</li> <li>- RF in x 1 (Option, with TV Tuner)</li> <li>- Microphone-in x 1</li> <li>- Headphone-out x 1</li> <li>- CIR x 1 for remote controller (Option, with TV Tuner)</li> <li>- DC-in jack x 1</li> </ul>



	<ul style="list-style-type: none"> <li>- RJ-11 jack x 1 for 56Kbps V.90/92 Modem</li> <li>- RJ-45 jack x 1</li> <li>- Kensington lock x 1</li> <li>- Express Card x 1</li> <li>- 3-in-1 Flash Card Reader(SD/MMC/MS) x 1</li> <li>- Internal microphone x 2</li> <li>- HDMI x 1</li> </ul>
17. TV Tuner	<ul style="list-style-type: none"> <li>- Optional for Hybrid TV in Mini Card with USB 2.0 I/F</li> <li>- Remote controller</li> </ul>
18. Mini Card	<ul style="list-style-type: none"> <li>- One Mini card slot for WLAN.</li> <li>- One Mini card slot for Hybrid TV</li> <li>- One Mini card slot for Intel Robson</li> </ul>
19. Control buttons	<ul style="list-style-type: none"> <li>- Power button x 1</li> <li>- Wow Video button x 1</li> <li>- Wow Audio button x 1</li> <li>- Power USB button x 1</li> <li>- Program DJ button x 1</li> <li>- Magnetic lid switch control for system standby/wakeup or suspend/resume</li> </ul>
20. Killer Switch	<ul style="list-style-type: none"> <li>- YES (Wireless On/Off)</li> </ul>
21. AC Adapter	<ul style="list-style-type: none"> <li>- Universal AC adapter. 100-240V AC, 50-60HZ <ul style="list-style-type: none"> <li>➤ 90W with 19V DC</li> <li>➤ 3 pin AC cable</li> </ul> </li> </ul>
22. Battery	<ul style="list-style-type: none"> <li>- 6 Cell Li-Ion, 18650 type, 4800/5200mAH</li> <li>- 9 Cell 7200/7800mAH (option).</li> <li>- Life Cycle: 70% Design Capacity after 300 Cycles in 25degreeC</li> <li>- Battery life: (Tested by Mobilemark2007) <ul style="list-style-type: none"> <li>2.3 hrs (typical) with 6-cell/4800mAh battery</li> <li>3.5 hrs (typical) with 9-cell/4800mAh battery</li> </ul> </li> </ul>
23. Software	<ul style="list-style-type: none"> <li>- Phoenix First BIOS</li> <li>- Suspend to DRAM/HDD</li> <li>- Support SMBIOS 2.4, PCI2.2</li> </ul>



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	<ul style="list-style-type: none"><li>- Support PXE</li><li>- Wake on LAN from S3</li></ul>
24. OS	<ul style="list-style-type: none"><li>- Windows Vista Premium (for 32/64bit)</li></ul>
25. Security	<ul style="list-style-type: none"><li>- Fingerprint</li><li>- Kensington lock</li></ul>
26. Regulatory	<ul style="list-style-type: none"><li>- EMI: FCC-B, CE, CCC, A,C-Tick, VCCI, BSMI</li><li>- Safety: Compliant to UL/CSA, CB</li><li>- PTT: FCC-Part 68, CTR 21</li><li>- MDA2005 Compliant</li><li>- WHQL LOGO</li><li>- Energy star4.0</li></ul>