**Release No : 08I010017**

| | |
|---|---|
| Product Model | **PER-C33L** |
| Description | Four PCI Express 10/100/1000 Ethernet Module |
| Test Configuration | ☑New product<br>☑Module : PER-C33L A0.1<br>☑BIOS : NA<br>☑LAN Module : PER-C33L A0.1 (4*Copper )*2<br>☑DUT Platform : FWB-7600 A0.1<br><br>☑Remark : QE P2 report for PER-C33L A0.1 |

**Test Result Summary**

| | Critical | Major | Minor | Enhancement |
|---|---|---|---|---|
| Defect Found | 0 | 5 | 0 | 0 |
| Defect Unsolved | 0 | 3 | 0 | 0 |

☐ Pass

☑ Fail

☐ Pass with Deviation

Comment: For smart bit function test, waiting for RD released the corrected driver



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## DUT Platform Information:

| | |
|---|---|
| System | FWS-7600 |
| PCB Model / Version | FWB-7600 A0.1 |
| BIOS | FWS-7600 BIOS Rev 1.0 (05/16/2008) |
| Operating System | Linux localhost.localdomain 2.4.20-8smp #1 SMP (Fedora 9.0) |
| | Windows XP |
| | Windows vista |
| | Windows server 2003 |
| | 64bit Windows server 2003 |
| CPU | Intel® Xeon® 2.12GHz LGA775 3050 Socket CPU |
| Memory | KINGMAX DDR2-533 SDRAM 512MB (KINGMAX KKEA88I4NAU-37XX) |
| SATA HDD | Western Digital WD800BEVS-22RST0 80GB 2.5" SATA HDD |
| Primary IDE Master | N/A |
| Primary IDE Slave | N/A |
| LAN Module | PER-C33L A0.1 (4*Copper )*2 |
| Expansion card | PER-C30L A0.1 (COM+USB+Copper LAN) |
| CRT | ViewSonic E70 |
| LCD | N/A |
| Compact Flash | N/A |
| Backplane | N/A |
| Riser Card | N/A |
| Chipset Software | N/A |
| Graphics Media | Linux Redhat 9.0 Default setting |
| LAN | LAN1→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN2→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN3→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN4→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN5→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN6→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN7→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| | LAN8→ Intel 82574L PCI-Ex1 10/100/1000Mb RJ-45 |
| Audio Driver | N/A |
| Power Supply | EMACS P1A-6301P ATX Power Supply |


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# 4. LAN Function and LED Test

## 4-1. LAN LED Function Test:

**Test Points: 1. Active LED→ It shows flickering orange color while LAN is access**
**2. Link / Speed LED→ It is off while LAN speed is 10 MBps**
**→ It shows green color that is always on while LAN speed is 100 MBps**
**→ It shows red-orange color that is always on while LAN speed is 1000 MBps (Gigabit)**

### LAN 1：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 2：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 3：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 4：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 5：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 6：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

### LAN 7：LED Indicator Lights Function Test〔 〕No Support

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |


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**OnBoard LAN 8：LED Indicator Lights Function Test〔 〕No Support**

| Test Item | Active LED | Link / Speed LED | Note |
|---|---|---|---|
| Pass | X | X | LED on RJ-45 |
| Fail | | | |
| N/A | | | |

## 4-2. Network HUB / LAN Connects Test:

**Test Point: 1. A represents QE Windows XP Pro / B represents Tested machine (Under Windows)**
**2. A ⟷ B means to connect two computers each other by using "Ping" instruction**
**3. Use CAT.6 network cable with RJ-45 connector to test**
**4. Allow failure rate under 1/1000.**

### LAN1 Port Test : [x]10 , [x]100 , [x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN2 Port Test : [x]10 , [x]100 , [x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN3 Port Test : [x]10 , [x]100 , [x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN4 Port Test : [x]10 , [x]100 , [x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |


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### LAN5 Port Test : [x]10 , [x]100 , [x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN6 Port Test : [x]10 , [x]100 ,[x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN7 Port Test : [x]10 , [x]100 ,[x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

### LAN8 Port Test : [x]10 , [x]100 ,[x]1000 Mbps

| Network HUB / HUB Speed | | Transfer Mode | Cable Length | Function Test | | | | | Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Packet in Byte | Send | Onboard LAN Speed | Received | N/A | |
| D-Link DGS-1008D | 1GBps | A ⟷ B | 100 M | 8192 | 1000 | 1000 | 999 | | |
| Accton DeskTop-3005 | 100 MBps | A ⟷ B | 100 M | 8192 | 1000 | 100 | 999 | | |
| SVEC FD916H (10 Mbps HUB) | 10 MBps | A ⟷ B | 100 M | 8192 | 1000 | 10 | 999 | | |

## 4-3: Two ports bypass function

### ：LED Indicator Lights Function Test 〔 〕No Support

| Test Item | Lan2&Lan3 | Lan6&Lan7 | Note |
|---|---|---|---|
| Pass | X | X | |
| Fail | | | |
| N/A | | | |


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