

JET WAY INFORMATION CO., LTD.

TEST REPORT

PRODUCT NUMBER: J-7LXA

CHIP SET: FW82443LX/FW82371AB

RELEASE DATE: 10/17/1997

Table of Contents

1. System Configuration	1
2. Functions Verify.....	2
2.1 Main Board	2
2.2 Green Function (Power Management).....	2
2.3 BIOS Setup	2
3. Performance Measurement.....	3
4. OS Installation Test Suite.....	4
5. Hardware Compatibility Test Suite	5
5.1 Memory Modules (Synchronous DRAM DIMM Module)	6
5.2 SCSI Disk & Disk Controller	6
5.3 IDE Hard Disk	7
5.4 Graphic Card.....	8
5.5 AGP Graphic Card.....	9
5.6 IDE CD-ROM.....	10
5.7 Multimedia Card.....	11
5.8 Netware Card	12
5.9 Other Peripheral Device.....	13
6. Application Software Compatibility	14
6.1 MS-DOS Utilities.....	14
6.2 Utilities & Tools	14
6.3 CAD & DTP/Mathematics & Statistics	14
6.4 Communication Test.....	15
7. Strees Test (Over night Burning)	16
7.1 Test Type: OS/2 WARP.....	16
7.2 Test Type: Windows NT 3.51.....	16
7.3 Test Type: Windows NT 4.0.....	16
7.4 Test Type: Windows 95	17
7.5 Test Type: QAPLUS.....	17
7.6 Test Type: CHECKIT	17

1. System Configuration

CPU Series	Vendor	System CPU Clock	Package 1.PGA, 2.PQFP, 3.ON-Board, 4.SLOT-1
PENTIUM	INTEL	300MHZ	4. SLOT-1

BIOS 512K/1M	Vendor	Version	Date	WINBIOS/Normal
1M	AWARD	V. 7LXA T0.4	09/05/1997	<input checked="" type="checkbox"/> WIN <input type="checkbox"/> NORMAL

SDRAM/Total Size	Vendor	Speed	Specification	Package
16M/ 32 BYTE	NEC/D45161161G5-A12-7JF	7NS	1X16 BIT	168PIN

HDD Vendor/Type	Mode Lever	Size	Interface	DOS Type
SEAGATE/ST32132A	MODE 4	2.1G BYTE	IDE ON BOARD	

FDD1/FDD2	Vendor	Bus Type	Interface Card
1.44M/	TEAC/	ISA	IDE ON BOARD

Monitor/VGA	VGA Card	Bus Slot Type	DRAM Size
<input checked="" type="checkbox"/> VGA <input type="checkbox"/> MONO	S3/765B	PCI	2M BYTE

2. Functions Verify

2.1 Main Board

ITEM	PASS	FAIL	MEMO
1. TURBO SWITCH	√		
2. TURBO LED DISPLAY	√		
3. SPEAKER	√		
4. POWER LED DISPLAY	√		
5. KEYLOCK	√		
6. CLEAR CMOS RAM	√		
7. RESET	√		
8. PS/2	√		
9. SMI LED	√		
10. HD LED	√		
11. OTHER JUMP SETTING			

2.2 Green Function (Power Management)

ITEM	PENTIUM II 200MHZ	PENTIUM II 233MHZ	PENTIUM II 266MHZ	PENTIUM II 300MHZ
1. DOZE	√	√	√	√
2. SLEEP	N/A	N/A	N/A	√
3. SUSPEND	√	√	√	√
4. I/O ACTIVITY	√	√	√	√

2.3 BIOS Setup

NO.	ITEM	PASS	FAIL	MEMO
1	IDE HDD AUTO DETECTION			
	HDD1: SEAGATE ST51270A	√		
	HDD2: QUANTUM FIREBALL ST1.6A	√		
	HDD3: SEAGATE ST32531A	√		
	HDD4: SEAGATE ST32132A	√		
2	CACHE ENABLE/DISABLE	√ / √	/	INT & EXT
3	COM1 ENABLE/DISABLE	√		ON BOARD
4	COM2 ENABLE/DISABLE	√		ON BOARD
5	IDE1 ENABLE/DISABLE	√		ON BOARD
6	IDE2 ENABLE/DISABLE	√		ON BOARD
7	PARALLEL PORT ENABLE/DISABLE	√		ON BOARD
8	DMA FUNCTION	√		
9	WIN 95 SHOW DOWN POWER OFF	√		
10	USB & USB KEYBOARD	√		
11	ONLY FLOPPY BOOT UP	√		
12	CPU FAN OFF IN SUSPEND	√		
13	SOFT-OFF BY PWR-BITN	√		
14	RESUME BY RING	√		
15	CPU WARNING TEMPERATURE	√		
16	LS-120	√		

CPU TYPE:	PENTIUM II 300MHZ
-----------	-------------------

3. Performance Measurement

Testing Environment:

- 64MB DRAM (32MB DIMM x2), external Cache 512KB on CPU
- S3 775 with 2MB PCI VGA (800x600, 256 colors)
- On board IDE+TRIONES IDE ULTRA DMA 33Mbyte/sec Driver
- Seagate ST32132A
- CONFIG.SYS contents is as following:
Device=C:\DOS\HIMEM.SYS
DOS=HIGH
DEVICE=C:\DOS\SMARTDRV.EXE /Double_Buffer
FILES=30
BUFFERS=30
STACKS=9,256
- AUTOEXEC.BAT file contents is as follow:
SMARTDRV.EXE 4096 256 /Q

CPU Type	Winstone 97 for Windows 95	Winstone 96 V1.0 for Windows 95	Norton Utility SI32 Windows 95
INTEL Pentium II 200MHz	52.3	85.7	97.6
INTEL Pentium II 233MHz	56.6	91.6	114.8
INTEL Pentium II 266MHz	59.6	97.2	131.1
INTEL Pentium II 300MHz	62.0	100.7	144.4

4. OS Installation Test Suite

Program	Version	Pass	Memo
WINDOWS	3.1	√	
CHINESE WINDOWS	3.1	√	
WIN WORKGROUP	3.11	√	
WINDOWS 95		√	
CHINESE WIN 95		√	
WINDOWS NT	3.51	√	
WINDOWS NT	4.0	√	WORKSTATION
CHINESE NT	4.0	√	SERVER
OS/2 WARP	3.0	√	
CHINESE OS/2 WARP	3.0	√	
NOVELL NETWORK	4.1	√	
NOVELL NETWARE	3.12	√	
JAPANESE WINDOWS	3.11	√	
MS-DOS	6.22	√	
MEMPHIS		√	
OS-R2		√	
CHINESE OS-R2		√	

5. Hardware Compatibility Test Suite

5.1 Memory Modules (Synchronous DRAM DIMM Module)

Vender	Component	DIMM Size	Damping	Status/ Remark	Remark
NEC	D4516161GS-A12-7JF	16MB		PASS/ 1MX16 BIT	
NEC	D4516821GS-A12	16MB Single	√	PASS/ 2MX8 BIT	
NEC	D4516821GS-A12	32MB Double		PASS/ 2MX8 BIT	
FUJI	81117822A-100FN	32MB Double	√	PASS/ 2MX8 BIT	
Ti	TMS 626812DGE-12A	32MB Double	√	PASS/ 2MX8 BIT	Original
Ti	TMS 626812DGE-12	32MB Double	√	PASS/ 2MX8 BIT	
Ti	TMS 626812DGE-12	16MB Single		PASS/ 2MX8 BIT	
Ti	TMS 626812DGE-12	32MB Double	√	PASS/ 2MX8 BIT	
Gold Star	LGS GM72V1682/BT10K	16MB	√	PASS/ 2MX8 BIT	
Hitachi	HM 5216165TT10	16MB		PASS/ 1MX16 BIT	
Hitachi	HM 5216805TT10	16MB		PASS/ 2MX8 BIT	
Toshiba	TC59S1608AFT-12A	32MB Double	√	PASS/ 2MX8 BIT	Original
Remark: 1. Run: CHECKIT MRMORY TEST 7 TIME 2. Run: QAPLUS 5.04 MEMORY TEST 4 TIME 3. NT 4.0 RUN ACADWIN LOOP TEST					

5.2 SCSI Disk & Disk Controller

Type	Model	Peripheral Device	O.S. Environment	Program Time/Min	Status/Remark
SCSI (PCI BUS)	JET SCSI (NCR 53C810)	VGA: SIS 6215 HDD: Quantum LPS-240S	WIN 3.1	Winston 95 (Once)	PASS
		VGA: SIS 6215 HDD: Quantum Fireball 1280S	WIN NT V3.51	AutoCAD R12 (Twice)	PASS
	ADAPTEC AHA-2940 (BIOS V. 1.11)	VGA: S3 TRIO64+ HDD: Quantum LPS-270S	OS/2 WARP	Poker (10~15Mins)	PASS
		VGA: SIS 6215 HDD: Quantum Fireball 1280S	WIN 95	Winbench 4.0 (Once)	PASS
		VGA: S3 864 HDD: IBM DORS-32160	WIN NT V3.51	AutoCAD R12 (Twice)	PASS
	ADAPTEC AHA-2940UW (BIOS V. 1.23)	VGA: SIS 6215 HDD: IBM DORS-32160	WIN NT V4.0	AutoCAD R13 (Twice)	PASS
		VGA: SIS 6215 HDD: Quantum Fireball 1280S	OS/2 WARP	Poker (10~15Mins)	PASS
		VGA: Trident 3D IMAGE 975 HDD: Quantum Fireball-TM 1280S	WIN 95	Winbench 4.0 (Once)	PASS
		VGA: SIS 6215 HDD: Seagate ST32155W	WIN 3.11	Winstone 95 (Once)	PASS

5.3 IDE Hard Disk

Peripheral Device		Pio Mode	O.S. Environment	Status/Remark
Maxtor	7850RV (850MB)	MODE 3	DOS 6.22 NT 4.0	PASS
	71626A (1.6GB)	MODE 4	DOS 6.22 NT 4.0	PASS
Seagate	ST32132A (2.1GB) (ATA-2)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST32132A (2.1GB) (ATA-3)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST33232A (3.2GB)	UDMA 2	DOS 6.22 NT 4.0	PASS
	ST3850A (850MB)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST5850A (850MB)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST51270A (1.2GB)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST32531A (2.5GB)	MODE 4	DOS 6.22 NT 4.0	PASS
	ST32140A (2GB)	MODE 4	DOS 6.22 NT 4.0	PASS
Conner	CFS1621A (1.6GB)	MODE 4	DOS 6.22 NT 4.0	PASS
Quantum Fireball	1280A (1.2GB)	MODE 4	DOS 6.22 NT 4.0	PASS
	850AT (850MB)	MODE 4	DOS 6.22 NT 4.0	PASS
	FireBall ST1.6A (1.6GB)	MODE 4	DOS 6.22 NT 4.0	PASS
	FireBall 2100A (2.1GB)	MODE 4	DOS 6.22 NT 4.0	PASS
Fujitsu	MPA3035ATU (3.5GB)	UDMA 2	DOS 6.22 NT 4.0	PASS
Wesern Digital	Caviar 2850	MODE 3	DOS 6.22 NT 4.0	PASS
Remark: Run: FLI				

5.4 Graphic Card

Type	Model	Status	O.S. Environment	Remark
VGA (PCI BUS)	J-MED2765B (S3 Trio 64V ⁺) 2M VGA BIOS Rev.	PASS PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	
	J-MED2325B (S3 ViRGE) 4M	PASS PASS PASS NO DRIVER PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	NT 3.51 need service pack 5
	J-MED2215 (SIS 6215)	PASS PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	
	J-MED2775 (S3 86C775)	PASS PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	
	J-2000 (IGS 2000)	PASS PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	
	JET-864 (S3 Vision 864) 1M VGA BIOS Rev.	FAIL PASS FAIL PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
	Trident 9440 (2M)	FAIL PASS NO DRIVER NO DRIVER	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
	Trident 9680 (1M)	PASS PASS NO DRIVER PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
	ET-6000 (2M)	PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
	CIRRUS-5440 (1M)	PASS PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51 NT 4.0	
	ATI Mach 64 (1M)	PASS PASS FAIL PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	

Resolution: 1024x768x256 (60Hz refresh rate, small font display mode)
Run: WINBENCH 96/WINBENCH 97 for Win 3.1, OS/2, NT3.51
 WINBENCH 97/WINBENCH 97 (Hi-end Graph Winmark 97) for Win95, OS-R2
 WINBENCH 97 (Business Graph Winmark 97) for NT 4.0

5.5 AGP Graphic Card

Type	Status	O.S. Environment	Remark
GX2-AGP VIRGE (4M)	PASS	WIN 95	
Trident 3D Image 975	PASS NO DRIVER NO DRIVER PASS	WIN 95 OS/2 WARP WIN NT V3.51 WIN NT 4.0	
Trident 3D Image 9850	FAIL NO DRIVER NO DRIVER FAIL	WIN 95 OS/2 WARP WIN NT V3.51 WIN NT 4.0	
S3 968	PASS PASS PASS PASS PASS	WIN 95 OS/2 WARP WIN NT V3.51 WIN NT 4.0 WIN 3.1	
S3 VIRGE /DX 86C375	PASS PASS NO DRIVER PASS PASS	WIN 95 OS/2 WARP WIN NT V3.51 WIN NT 4.0 WIN 3.1	NT 3.51 need service pack 5
Resolution:			

5.6 IDE CD-ROM

Model	O.S. Environment	Status/Remark
NEC (CDR-1300A)	DOS 6.22 WIN 95	PASS
NEC (CDR-1400B)	DOS 6.22 WIN 95	PASS
CREATIVE (CD620E)	DOS 6.22 WIN 95	PASS
CREATIVE (CD820E)	DOS 6.22 WIN 95	PASS
SUMSUNG (SCR-830)	DOS 6.22 WIN 95	PASS
GALLANT (GCD-R540B)	DOS 6.22 WIN 95	PASS
PHILIPS (JVP-665A)	DOS 6.22 WIN 95	PASS
TOSHIBA (DVD-ROM SD-M1002)	WIN 95	PASS
TOSHIBA (XM-5602B)	DOS 6.22 WIN 95	PASS
PANASONIC (CR583-B)	DOS 6.22 WIN 95	PASS
PANASONIC (CR584-B)	DOS 6.22 WIN 95	PASS
HITACHI (CDR-7930)	DOS 6.22 WIN 95	PASS
TEAC (CD-85E)	DOS 6.22 WIN 95	PASS

Remark:
DATA TRANSFER

5.7 Multimedia Card

Model	Status	O.S. Environment	Remark
J-MED1931B (Opti 82C931)	PASS PASS PASS NO DRIVER PASS	WIN 3.1 WIN 95 WIN NT 4.0 OS/2 WARP WIN NT V3.51	
J-MED1930 (Opti 82C930)	PASS PASS PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
Sound Blaster 16 PRO (PnP)	PASS PASS PASS PASS NO DRIVER	CHINESE WIN 3.1 CHINESE WIN 95 WIN 95 OS/2 WARP WIN NT V3.51	
Sound Blaster AW32 (PnP)	PASS PASS PASS PASS NO DRIVER	CHINESE WIN 3.1 CHINESE WIN 95 WIN 95 OS/2 WARP WIN NT V3.51	
Gniuse Sound Maker (PnP) (ESS1868F)	PASS PASS NO DRIVER PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
FM Radio Sound Card (FM 16 PnP) (ESS1868)	PASS PASS NO DRIVER NO DRIVER	WIN 3.1 WIN 95 OS/2 WARP WIN NT V3.51	
J-1719A (YMF719)	PASS PASS NO DRIVER PASS PASS	WIN 3.1 WIN 95 OS/2 WARP WIN NT 4.0 WIN NT V3.51	

Remark: RUN: CD MUSIC/MIDI/WAVE GAME (DOOM II)			

5.8 Netware Card

BRAND	NOVELL 4.1 SERVER		NOVELL 4.1 STATION		NOVELL 3.12 STATION	
	PASS	FAIL	PASS	FAIL	PASS	FAIL
1. S9152EA	√		√		√	
2. UK0022 (YCL)	√		√		√	
3. S9218AD	√		√		√	
4. UMC9003	√		√		√	
5. DLINK DE220CT	√		√		√	
6. S9152FL	√		√		√	
7. DLINK DE220P	√		√		√	
8. 3COM 3C509	-		√		√	
9. APX EDI 95C02	√		√		√	
10. PE970 (PCI)	√		√		√	
11. RTL8029 (PCI)	√		√		√	

5.9 Other Peripheral Device

Model	Peripheral Device	O.S. Environment	Status/Remark
IR Device		DOS 6.22/LL5	PASS
ECP Device		Windows 3.11 ECP Complarce Test	PASS
LL3 Test		DOS 6.22/LL3	PASS
MPEG-2 Playback Card		WIN 95	PASS
Remark:			

6. Application Software Compatibility

6.1 MS-DOS Utilities

Package Name	Version	Status	Features Tested
HIMEM.SYS	V6.22	PASS	
EMM386.EXE	V6.22	PASS	
RAMDRIVE.SYS	V6.22	PASS	
MS-Mouse	V9.01	PASS	
KEYB	V6.22	PASS	
MS-DOS-Utilities	V6.22	PASS	

6.2 Utilities & Tools

Package Name	Version	Status	Features Tested
386 MAX for Win95	V8.0	PASS	
QEMM 386 for Windows	V8.0	PASS	
ET-2000 for Windows	V2.0	PASS	
Norton Utility	V8.0	PASS	
Norton Commander	V5.0	PASS	
PCTools for Windows	V2.0	PASS	
PC-Tools for DOS	R9.0	PASS	
Corel SCSI Pro	V2.2	PASS	
EZ-SCSI	V4.0	PASS	
Xing for Win95	V3.02	PASS	V1.48
Power Play	V3.23	PASS	

6.3 CAD & DTP / Mathematics & Statistics

Package Name	Version	Status	Features Tested
MathCAD/Win	V6.0 Plus	PASS	
AutoCAD for DOS/ Windows (English Version)	R13	PASS	

AutoCAD for DOS/Chinese ver (Win95/English ver)	R12	PASS	
AutoCAD LT for Windows95 (Chinese Version)	2.0	PASS	
3D Studio	4.0	FAIL	
Corel Draw (Chinese Version)	V6.0	PASS	
MicroStation for DOS/Windows	V5	PASS	

6.4 Communication Test

Package Name	Version	Tested	Remark
Telix CTELIX	V3.22	PASS	
Windows 95 TRANXIT	V2.0	PASS	
Remark:			

7. Strees Test (Over night Burning)

7.1 Test Type: OS/2 WARP

Configuration:			
CPU:	Pentium II 266MHz	Cache RAM:	ON CPU 512K
DRAM:	Hitachi/ HM5216805TT10	HDD:	Seagate/ST51270A
DRAM SIZE:	16M X2	FDD:	TEAC/1.44M
Display Card:	S3 765B	Disk Controller:	IDE ON BOARD
Test Procedure: RUNNING MULTI-TASKING PROGRAM, FILE/WIRTE BETWEEN FLOPPY & HARD DISK PLAYING POKER GAME, OPEN AND RUN SEVEN ICON AT SAME TIME			
Result: PASS		Duration: 96 Hours	

7.2 Test Type: Windows NT 3.51

Configuration:			
CPU:	Pentium II 266MHz	Cache RAM:	ON CPU 512K
DRAM:	Ti/ TMS626812DGE-12A	HDD:	Conner/CFS1621A
DRAM SIZE:	32M X1	FDD:	TEAC/1.44M
Display Card:	Cirrus 5440	Disk Controller:	IDE ON BOARD
Test Procedure: RUNNING AUTOCAD FOR WINDOWS NT			
Result: PASS		Duration: 96 Hours	

7.3 Test Type: Windows NT 4.0

Configuration:			
CPU:	Pentium II 233/266/300MHz	Cache RAM:	ON CPU 512K
DRAM:	Hitachi/ HM5216165TT10	HDD:	Seagate/ST32132A
DRAM SIZE:	16M X2	FDD:	TEAC/1.44M
Display Card:	S3 765 (2M)	Disk Controller:	IDE ON BOARD
Test Procedure: RUNNING AUTOCAD FOR WINDOWS NT			
Result: PASS		Duration: 96 Hours	

7.4 Test Type: Windows 95

Configuration:			
CPU:	Pentium II 233/266/300MHz	Cache RAM:	ON CPU 512K
DRAM:	NEC/ D4516821GS-A12	HDD:	Seagate/ST32132A
DRAM SIZE:	32M X2	FDD:	TEAC/1.44M
Display Card:	S3 775 (2M)	Disk Controller:	IDE ON BOARD
Test Procedure: LOOP TESTING ON ACADWIN			
Result: PASS		Duration: 96 Hours	

7.5 Test Type: QAPLUS

Configuration:			
CPU:	Pentium II 266/300MHz	Cache RAM:	ON CPU 512K
DRAM:	NEC/ D4516161G5-A12-7JF	HDD:	Seagate/ST32132A
FDD:	16M X2	FDD:	TEAC/1.44M
Disk Controller:	Trident 9680	Disk Controller:	IDE ON BOARD
Test Procedure: QA 5.20, 5.40, RUN ALL TEST			
Result: PASS		Duration: 96 Hours	

7.6 Test Type: CHECKIT

Configuration:			
CPU:	Pentium II 266/300MHz	Cache RAM:	ON CPU 512K
DRAM:	Fuji/ 81117822A-100FN	HDD:	Seagate/ST32132A
FDD:	32M X2	FDD:	NEC/1.44M
Disk Controller:	SIS 6215	Disk Controller:	IDE ON BOARD
Test Procedure: CHECK 3 & CHECK PRO MEMORY SYSTEM BOARD REAL-TIME CLOCK, SERIAL PORTS PARALLEL PORTS VIDEO.			
Result: PASS		Duration: 72 Hours	