



# **Tekram Technology Co., Ltd.**

## **Test Report**

**Product Name** : IR-210B V3.0  
**Test Report Date** : JAN-30-2002  
**Test Report Version** : B  
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# INDEX

<b>A. BASIC FUNCTION TEST .....</b>	<b>3</b>
A1. Prodrct Specification .....	3
A2. Basic Function Test.....	3
<b>B. FUNCTIONALITY TEST .....</b>	<b>4</b>
B1. Functionality Test .....	4
B2. File Transfer Test in Win2000.....	4
<b>C. Compatibility TEST .....</b>	<b>5</b>
C1. IrDA DEVICE TEST .....	5
C2 M/B Compatibility TEST .....	5
<b>D. OPERATION SYSTEM TEST .....</b>	<b>6</b>
<b>E. RELIABILITY TEST .....</b>	<b>7</b>
E1. File Transfer Test.....	7
E2. Temperature Test .....	7

## Report Version History

Version	Date	Description
<b>A</b>	<b>Jul-24-2001</b>	<b>First Release</b>
<b>B</b>	<b>JAN-30-2002</b>	<b>Change GAL</b>

## A. BASIC FUNCTION TEST

### A1. Product Specification

<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Meets IrDA 1.1 Physical Specifications</li> <li>▪ Max. Speed Supported: 115.2 Kbps</li> <li>▪ Connects directly to the COM port of the PC. There is no need for any external power adapter.</li> <li>▪ Upgrades PCs with wireless transmission ability to communicate with mobile computing devices that have an IrDA Infrared port.</li> </ul>
<b>Platform</b>	IBM Compatible PC System, min. With Intel Pentium 133 MHz
<b>Standard</b>	IrDA Version 1.0 and 1.1
<b>Speed</b>	SIR Standard, Max. 115.2 KB/s, 38.4KB/s, 19.2KB/s, 9.6KB/s
<b>Effective Distance</b>	1 cm-100 cm in the normal environment
<b>Operating Temperature</b>	1°C ~70°C
<b>Power Source</b>	no need for any external power adapter
<b>Operating Systems</b>	Windows 95/98SE/ME/2000/XP
<b>Product Description:</b>	IR-210 is an easy-to-install <b>SIR Infrared Adapter</b> , which is connected to the <b>serial (COM) port</b> of the PC to add the Wireless Infrared feature to the system. IR-210 provides Wireless data transfer between notebooks and mobile computing devices that have an IrDA Infrared port built in.

### A2. Basic Function Test

Test Item	Description	Result	Remark
A1a	Product Model Name Check	Pass	
A2a	Product Mechanical Check	Pass	
A2b	Product LED Status	Pass	

## B. FUNCTIONALITY TEST

### B1. Functionality Test

TXD \ RXD	Windows 98SE			Windows ME			Windows 2000			Windows XP		
	Distance	Speed	Angle	Dis..	Spd..	Ang..	Dis..	Spd..	Ang..	Dis..	Spd..	Ang..
Win98SE	130cm	115.2	10°	130	115.2	17.2°	146	115.2	14.4°	135	115.2	16.1°
WinMe	140cm	115.2	14°	129	115.2	16.5°	137	115.2	9.8°	130	115.2	12.1°
Win2000	141cm	115.2	14.5°	143	115.2	20°	138	115.2	16°	130	115.2	20°
Win XP	138cm	115.2	11°	139	115.2	24.4°	140	115.2	16°	132	115.2	16.7°

\*File Transfer size is 1M.

### B2. File Transfer Test in Win2000

Transmit \ Reception	9.6K		19.2K		38.4K		57.6K		115.2K		Remark
	Com1	Com2	Com1	Com2	Com1	Com2	Com1	Com2	Com1	Com2	
9.6K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
19.2K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
38.4K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
57.6K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
115.2K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	

\*File Transfer size is 1M.

### Test Environment

Test Environment	Manufacturer	Model	Bios	Chipset	CPU Type
Mother Board	TEKRAM	P6PRO-AU	1.03	VT82C694X & VT82C686A	Intel PIII 500(Slot1)
	MS	W6337	1.4	Intel 82815E & 82801BA	Intel PIII 1.0G
	ASUS	AT266-E	1004b	VT8633-A7V266-E	AMD Athlon(Tm)800M
IDE Hard Disk	1.IC35L040AVER07-0		2.IC35L040AVER07-0		3.ST320414A
DRAM	1.HY PC133 128M		2.1.HY PC133 128M		3. 1.HY PC133 128M
IDE CD-ROM	1.BCD-36XH		2.ASUS 40X		3. ASUS CD-S500/A
VGA Card	1.ATI-264VT		2.Onboard		3.ATI-VC264VT
Power	1.CL300-ATX		2.CL300-ATX		3.CL300-ATX

## C.Compatibility TEST

### C1. IrDA DEVICE TEST

TEST DEVICES		Operation System			
Device Type	Vendor / Model	Win98SE	WinME	Win 2000	Remark
PDA	COMPAQ/Pocket PC 3630	PASS	PASS	PASS	
Mobil Phone	Nokia 8250	PASS	PASS	PASS	
	Nokia 6150	PASS	PASS	PASS	
	Motorola P7689	PASS	PASS	PASS	
NoteBook	Asus LS8400	PASS	PASS	PASS	
	Asus p6300	PASS	PASS	PASS	
IrDA Printer	Hp lastjet 2100	PASS	PASS	PASS	

### C2 M/B Compatibility TEST

Manufacture	MODEL	Chipset	BIOS	CPU Type	Result	Remark
MS	W6337	Intel 82801BA & 82815E	1.4	Intel PIII 1.0G	PASS	
ASUS	AT266-E	VT8633-A7V266-E	1004 b	AMD Athlon(TM)800M	PASS	
Tekram	P6B40-A4X	Intel FW82443BX & FW82371EB	1.10	Intel PIII 500(Slot1)	PASS	
Tekram	P6PRO-AU	VT82C694X & VT82C686A	1.03	Intel PIII 500(Slot1)	PASS	

**D. OPERATION SYSTEM TEST**

OS	Language	9.6K	19.2K	38.4K	57.6K	115.2K	Remark
Windows 98Se	English	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system+acpifix
	German	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system+acpifix
	Japanese	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system+acpifix
	Chinese(Taiwan)	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system+acpifix
	Chinese(Simples)	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system+acpifix
Windows ME	English	PASS	PASS	PASS	PASS	PASS	Drivers for IR-210B setup Utility
	German	PASS	PASS	PASS	PASS	PASS	Drivers for IR-210B setup Utility
	Japanese	PASS	PASS	PASS	PASS	PASS	Drivers for IR-210B setup Utility
	Chinese(Taiwan)	PASS	PASS	PASS	PASS	PASS	Drivers for IR-210B setup Utility
	Chinese(Simples)	PASS	PASS	PASS	PASS	PASS	Drivers for IR-210B setup Utility
Windows 2000	English	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	German	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	Japanese	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	Chinese(Taiwan)	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	Chinese(Simples)	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
Windows XP	English	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	German	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	Japanese	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system
	Chinese(Taiwan)	PASS	PASS	PASS	PASS	PASS	Built-in Drivers in system

## E. RELIABILITY TEST

### E1. File Transfer Test

OS	Start_Time (via)	End_Time (via)	Total Time (Minute)	Dis (cm)	File Size	Pass Size	Rate K/Sec	Remark
Win98se	16:45:20	16:45:42	22sec	40	100K	100K	7.14K	
Win98se	16:50:05	16:53:44	3min39sec	40	1M	1M	8.3K	
Win98se	17:10:00	17:49:45	39min45sec	40	10M	10M	4.2K	
WinMe	14:01:05	14:01:15	10sec	40	100K	100K	100K	
WinMe	14:04:10	14:05:50	1min40sec	40	1M	1M	333K	
WinMe	14:10:00	14:27:45	17min45sec	40	10M	10M	223K	
Win2K	11:35:25	11:35:33	8sec	40	100K	100K	100K	
Win2K	11:51:15	11:52:45	1min30sec	40	1M	1M	167K	
Win2K	11:56:00	12:12:46	16min46sec	40	10M	10M	84K	
Winxp	13:05:05	13:05:15	10sec	40	100K	100K	100k	
Winxp	13:08:55	13:10:35	1min40sec	40	1M	1M	73k	
Winxp	13:25:55	13:42:03	17min8sec	40	10M	10M	80k	

\* File Transfer Speed is 115.2kbps

### E2. Temperature Test

Temperature	9.6K	19.2K	38.4K	57.6K	115.2K	Remark
0 degree	PASS	PASS	PASS	PASS	PASS	
40 degree	PASS	PASS	PASS	PASS	PASS	