

FCC PART 15 Subpart C

EUT EXTERNAL PHOTO

For
TECOM CO., LTD.

No. 23, R & D Rd. 2, Science-Based Industrial Park,
Hsin-Chu, Taiwan, R. O. C.

FCC ID: D6X402421

December 23, 2000

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Multiple -Handset Cordless Phone – Household Appliances
Test Engineer: Victor Liu	
Test Date: December 19, 2000	
Reviewed By: John Y. Chan – Engineering Manager	
Prepared By: Bay Area Compliance Laboratory Corporation 230 Commercial Street, Suite 2 Sunnyvale, CA 94086 Tel: (408) 732-9162 Fax: (408) 732 9164	

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

TECOM CO., LTD. FCC ID: D6X402421 or the "EUT" as referred to in this report is a 2.4 GHz 4-Line Cordless Phone. The EUT was composed of two parts, one is a Handset which measured 8" L x 2.25" W x 1.5"H, and the other is a Base which measures 8.5"L x 6.5"W x 1.75"H.

The system provides many features such as:

1. CO LINES/PBX: 4 CO LINES, 12 STATIONS
2. LCD with 2 x 16 ALPHA-NUMERIC & 2 ROWS ICONS
3. TONE/PULSE DIALING SELECABLE
4. SPEED DIAL: 20(EACH 30 DGT AND 16 CHAR NAME MAX)
5. MEMORY: 01-20
6. CID MEMORY: 50
7. HANDSET SPEAKERPHONE
8. PAGE
9. ROOM MONITOR
10. CALL TIMER
11. TYPE & II CALLER ID
12. VISUAL MESSAGE WAITING
13. INTERCOM
14. LAST NUMBER REDIAL
15. CALL HOLD FOR EXTERNAL CALL
16. 3-WAY CONFERENCE
17. CALL TRANSFER OF EXTERNAL CALL
18. TRANSFER RECALL
19. HOLD REMINDER
20. DO-NOT-DISTURB(DND)
21. FLASH
22. PAUSE(2 SECONDS)
23. MUTE/UNMUTE TOGGLE CONTROL
24. HEADSET COMPATIBILITY
25. RINGER TONES SELECTION AND VOL ADJUSTABLE
26. HANDSET/HEADSET/SPEAKERPHONE VOL ADJUSTABLE
27. CO LINE RINGING ENABLE/DISABLE
28. PROGRAMMABLE FLASH(0.6 SECONDS DEFAULT) RANGE 0.1SEC-0.9SEC
29. STORE REDIAL INTO SPEED DIAL MEMORY
30. ERASE SPEED DIAL MEMORY
31. PROGRAM SYSTEM SECURITY CODE
32. PROGRAM CID AREA CODES
33. HOME AREA CODES: 1
34. LOCAL AREA CODES: 5
35. MASTER RESET
36. HOLD TIME REMINDER TIME (30 SECONDS DEFAULT)
15 SECONDS-60SECONDS WITH OFF SETTING
37. LINE IN USE DETECT ENABLE/DISABLE
38. RINGING INDICATORS
39. CONFERENCE TWO OUTSIDE LINES
40. CONFERENCE ONE OUTSIDE AND TWO HANDSET
41. HANDSET IDENTIFICATION(01-12)
42. BATTERY LOW INDICATION
43. OUT OF RANGE INDICATION AND WARNING TONE
44. REVIEWING A CALL
45. AUTO-DIAL FROM CALLER ID LOG

- 46. STORE CID INTO SPEED DIAL
- 47. ERASE CIS CALL
- 48. ERASE ALL CALLS
- 49. DISPLAY TOTAL CALLS/TOTAL NEW CALLS
- 50. ANY KEY ANSWER
- 51. DIGITAL KEYS AND LINE KEYS
- 52. DIRECTLY ANSWER ANY RINGING LINE BY PRESSING THE ASSOCIATED LINE
BUTTON
- 53. AUX DATA PROT(CONNECTED TO LINE 2)
- 54. KEYPAD BACKLIGHT
- 55. LCD BACKLIGHT
- 56. US STANDARD WALL MOUNT BRACKET
- 57. AUTO RELEASE WHEN THE HANDSET IS RETRUNTED TO CRADLE

1.2 Objective

This type approval report is prepared on behalf of *TECOM CO., LTD.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for Output Power, Antenna Requirement, Hopping Channel Separation, Number of Hopping Frequency Used, Channel Bandwidth, Dwell Time on Each Channel, Band Edge, 100 kHz Bandwidth of Band Edges Measurement, Spurious Emission, and Conducted and Radiated Emission.

1.3 Related Submittal(s)/Grant(s)

No Related Submittals

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 –1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 10 meters.

1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Suite 2, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-674 and R-657. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1993, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Data
HP	Spectrum Analyzer	8566B	2610A02165	12/6/01
HP	Spectrum Analyzer	8593B	2919A00242	12/20/01
HP	Amplifier	8349B	2644A02662	12/20/01
HP	Quasi-Peak Adapter	85650A	917059	12/6/01
HP	Amplifier	8447E	1937A01046	12/6/01
A.H. System	Horn Antenna	SAS0200/571	261	12/27/01
Com-Power	Log Periodic Antenna	AL-100	16005	11/2/01
Com-Power	Biconical Antenna	AB-100	14012	11/2/01
Solar Electronics	LISN	8012-50-R-24-BNC	968447	12/28/01
Com-Power	LISN	LI-200	12208	12/20/01
Com-Power	LISN	LI-200	12005	12/20/01
BACL	Data Entry Software	DES1	0001	12/20/01
Rohde & Schwarz	Signal Generator	SMIQ03B	1125.5555.03	7/10/02
Rohde & Schwarz	I/Q Modulation Generator	AMIQ	1110.2003.02	8/10/02

1.7 Equipment Under Test (EUT)

Manufacturer	Description	Model	Serial Number	FCC ID
TECOM CO., LTD.	2.4GHz Multiple-Handset Cordless Telephone System	40-2421	None	D6X402421

1.8 Support Equipment (for Base Only)

Manufacturer	Description	Model	Serial Number	FCC ID
Phone Line				
Cheng Uei Precision Industry Co., Ltd.	Power Adapter for Charger	DBT120950D	586-351202	DOC
Leader Electronics, Inc.	Power Adapter for Base	480910003CO	586-301202	DOC

1.9 External I/O Cabling

For Base:

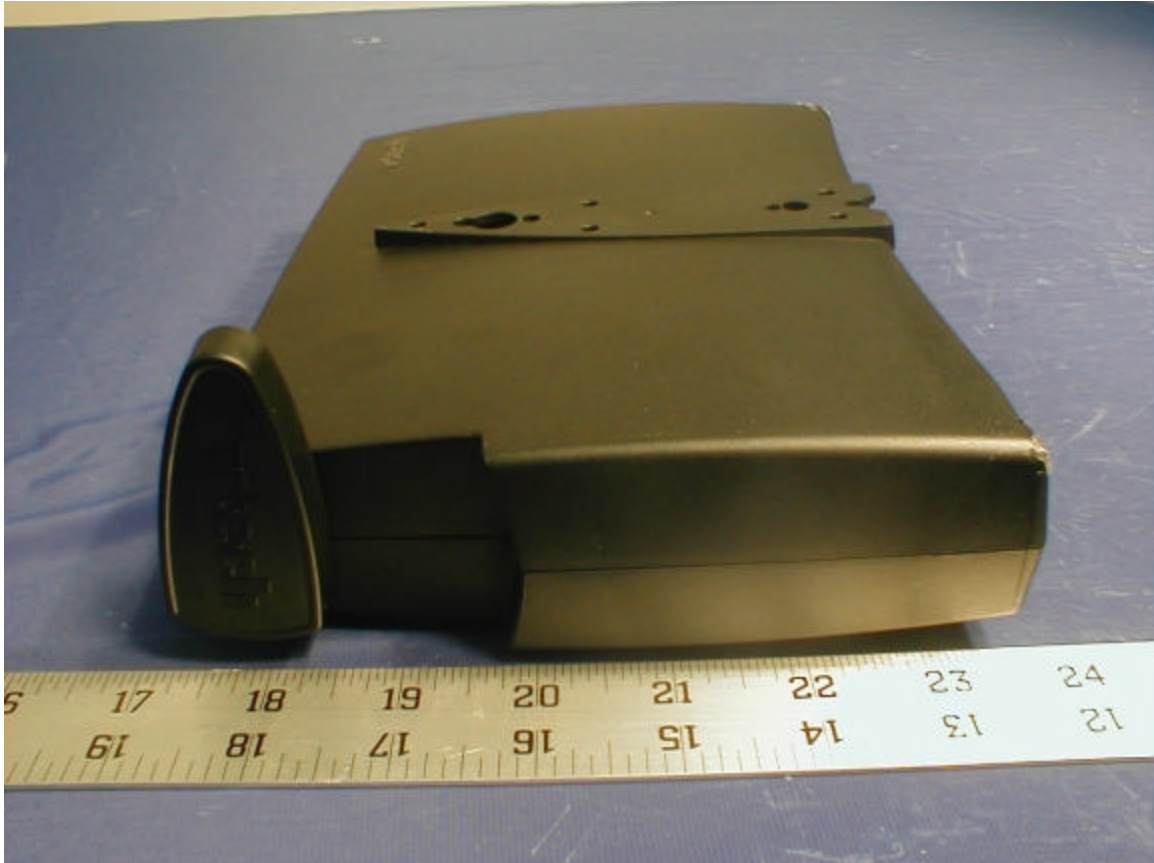
Cable Description	Length (M)	Port/From	To
Unshielded RJ11 Cable x 1	10	RJ-11 Port/Base	Phone Line
Unshielded Cable x 1	2	DC Power Port/Base	Power Adapter

2 – EUT PHOTOGRAPHS

2.1 EUT Overall Front View



2.2 EUT Base Side View



2.3 EUT Handset Front View



2.4 EUT Handset Rear View



2.5 EUT Handset Side View



2.6 Charger Front View



2.7 Charger Rear View



Appendix A – AGENT AUTHORIZATION LETTER



TECOM CO., LTD.

23, R & D ROAD 2,
SCIENCE-BASED INDUSTRIAL PARK
HSIN-CHU TAIWAN R.O.C.
TELEPHONE: 886-35-775141
FAX: 886-35-778855

December 12, 2000

Federal Communications Commission
7435 Oakland Mills Road
Columbia, Maryland, 21046

Sir/Madam,

Regarding: FCC grand for model "40-2421"

This letter is an authorization to accept Bay Area Compliance Lab. Corporation as an agent for Tecom Co, LTD., 23, R&D Road 2, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C., to sign applications before the Commission on our behalf, to make representations to you on our behalf, and to receive and exchange data between our company and the commission in connection with certification of the following Tecom's product model 40-2421.

Under FCC docket number 20780 and general docket number 80-284 pursuant to part 15, FCC rules and regulations.

Sincerely,

Signature: *Sheng Yih Lin*

Printed Name: Sheng-Yih Lin

Title: Sr. Project Engineer

Date: December 12, 2000