



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

V.56

DATA COMMUNICATION OVER THE TELEPHONE NETWORK

COMPARATIVE TESTS OF MODEMS FOR USE OVER TELEPHONE-TYPE CIRCUITS

ITU-T Recommendation V.56

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation V.56 was published in Fascicle VIII.1 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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COMPARATIVE TESTS OF MODEMS FOR USE OVER TELEPHONE-TYPE CIRCUITS

(Geneva, 1972; amended at Geneva, 1976 and 1980,
Malaga-Torremolinos, 1984 and at Melbourne, 1988)

To facilitate the work of Administrations in making comparative tests of modems for use over telephone-type circuits offered by different manufacturers, it is recommended that the tests should be made in the laboratory under the following operating conditions:

1 List of test parameters (see Table 1/V.56)

TABLE 1/V.56

Test parameters

Ref. No.	Parameter	Four-wire point-to-point	Two-wire switched network	
			Serial modems	Parallel modems
1	Total attenuation or receiving signal level	X	X	X
2	Attenuation distortion	X	X	
3	Envelope or group delay distortion	X	X	
4	Frequency shift (or offset)	X	X	
5	Sudden changes of attenuation	X	X	
6	Interruptions	X	X	
7	Phase hits	X	X	
8	Phase jitter	X	X	
9	Harmonic distortion	X	X	
10	Listener echo		X	
11	"White" noise	X	X	
12	Impulsive noise	X	X	
13	Single tone interference		X	

2 Block diagram for standard test measuring set-up

It is proposed that comparative tests be made using either all or parts of the measuring set-up shown in Figure 1 /V.56.