

Test Equipment List

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Here is a partial list of test equipment that I have experience using. All instruments (except portable meters) have IEEE-488 (GPIB) bus ports, excluding items listed below the IEEE-488 (GPIB) card. This table represents only a portion of familiar test equipment.

<i>Equipment Type</i>	<i>Make</i>	<i>Model/s</i>
Network Data Generator/Analyzer	Adtech	AX/4000 (UTOPIA, Ethernet, OC-3)
Network Data Generator/Analyzer	Adtech	AX/4000 Cards: 400326, 400327, 400328 (UTL2, TXPod, RXPod)
Network Data Generator/Analyzer	Netcom/Spirent	SmartBits 200, 2000, 6000B (Ethernet, OC-3)
Network Data Generator/Analyzer	Netcom/Spirent	SmartBits Cards: ATM-3451A, GX-1420B, LAN-3101B, LAN-3320A, ML-7710, SX-7410, SX-7410B
Network Data Generator/Analyzer	Innocor	PHY Master (POS-PHY, UTOPIA)
Network Data Generator/Analyzer	BitGate	BG2000 (POS-PHY, UTOPIA)
BER Tester	TTC	Fireberd 4000, 6000A (V.35)
Digital Logic Analyzer	Agilent (HP), Tektronix, Link Instruments	1671G, TLA704, LA4540
Network/Spectrum/Impedance/Vector/EMC Analyzer	Keysight (HP, Agilent), Rohde & Schwarz, Advantest	N3383A (9GHz), N5230A (20GHz), N5231A (13.5GHz), 89410A, 4395A, E4411B, E4404B, 3589A, E7401A, 1043.0009.55/5C, R3132, FieldFox N9918A (26.5GHz)
Time Domain Reflectometer (TDR)	Tektronix, Mohr, Keysight	1502C (4GHz BW), CT100B (8GHz BW), FieldFox N9918A (26.5GHz BW)
xDSL Noise Generator	Consultronics (DLS TestWorks, Spirent)	NSA 400

xDSL Wireline/Impairment Simulator	Consultronics (DLS TestWorks, Spirent), Processing Telecom Technologies (PTT/Adtran)	DLS 400, DLS 400HN, DLS 90/26-9.35 v4, XPS, 5260L24
xDSL Loop Simulator (multi-channel)	Telebyte	458 (and 458-LM-HD cards)
xDSL Loop Simulator (multi-channel)	Spirent	DLS 6800, DLS 6826
xDSL Programmable Unit (special purpose)	Spirent	DLS 5204, DLS 5404, DLS 6500
Oscilloscope (Analog)	Tektronix, LeCroy (Iwatsu), Leader, Heathkit, HP, GoldStar (LG), B&K, others	2465A, 2465B, 2215, 475A, 465B, LA314H (SS-7847A)
Oscilloscope (DSO)	Tektronix	DPO2024B, DPO2022B, DPO4104, DPO70404B, MDO4104B-6, TDS3034, TDS3034B, TDS3054, TDS7054, TDS744A, TDS220
Oscilloscope (DSO)	LeCroy (Iwatsu)	WaveRunner LT364, LT374, LC574A
Oscilloscope (DSO)	Agilent (HP)	MSO7034B
Oscilloscope (QAM Constellation Monitor)	Leader	LB-51MA
Intelligent Digital Multimeter (DMM)	Agilent (HP), Fluke	3458A, 45
Portable Digital Multimeter (DMM) Average & True RMS	Fluke, Heathkit, RS, B&K, others	87III, 85III, 175, 79, 77, 77III, 75, 73, 25, 8920A, Pokit, Pokit Pro
Analog Multimeter	Simpson, Fluke, Weston, others	Multiple models
Inductive Current Meter	Applied Physics System	428D
Portable Inductive Current Meter	Fluke	Multiple models
Power Supplies (including programmable type)	Agilent (HP), B&K, others	E3610A, E3631A, E3634A, E3640A, E3642A, 6205C, 6214A, 6236B, 6237A, 6623A, 6633A, 6652A, LPS-225
Switch/Control Unit/Box (for automation)	Cytec	RJV/48 MF with 12x1-8 TS (27-06-10)
Switch/Control Unit/Box (for automation)	Agilent (HP)	3488A w/44470A, 71A, 72A, 73A, 74A
Remote Switch/Control Unit/Box	Digital Loggers, Inc.	Web Power Switch 7.0 (LPC734016)
Environmental Chamber	Tenney, Thermotron	T6C, T6C-1, T20RC, S-8-3800
X-Ray Machine	Glenbrook Technologies	Jewel Box 90c

IEEE-488 (GPIB) Card	National Instruments	NI-488.2, 4065
Digital Thermometer (thermocouple type)	SRS, Keithley, Omega, Fluke	SR630, 740
Digital Thermometer (non-contact IR)	Sentry Optronics, Cen-Tech, Fluke	ST630 (TM-956), 93983
EMF Meter (digital) single-axis	K-II Enterprises, Lutron/Reed	K-II, EMF-822A
EMF Meter (analog) single-axis	Gauss Master	N/A
FO-to-RS232 Converter (box) ST-conn	R.E. Smith	F232C-B
AF/Waveform/Function/Pulse Generator	Agilent (HP), others	Multiple models
RF Signal/Sweep/Noise Generator	Agilent (HP), Wavetek, others	Multiple models, E8257D (20GHz), 33220A (20MHz)
RF Attenuator (fixed/step/adjustable)	Agilent (HP), Mini-Circuits, others	Multiple models
Power Meter (AF/RF, W/VA/VU)	Keysight (HP, Agilent), Fluke, Bird, Heathkit, Anritsu, RS, Eico, others	Multiple models, E4416A
Sound Level Meter (AF)	RadioShack	Multiple models
Frequency/Event Counter	HP, Optoelectronics, others	Multiple models
Distortion Analyzer (AF)	HP	Multiple models
Curve Tracer	Tektronix	Multiple models
Grid Dip Oscillator/Meter	Heathkit, Eico, others	Multiple models
SWR/VSWR Meter, SWR Analyzer	Heathkit, Eico, MFJ, RS, others	Multiple models
Q-Meter	Boonton and HP	Multiple models
RX-Meter, Impedance Bridge	Boonton and HP	Multiple models
RX Noise Bridge	Heathkit, MFJ, others	Multiple models
Wheatstone Bridge	Weston	Multiple models
Capacitor/Inductor Tester/Checker	Heathkit, Eico, others	Multiple models
Transistor/Diode Tester/Checker	Heathkit and others	Multiple models
Tube Tester/Checker	Heathkit and others	Multiple models
TV Colorbar/Pattern Generator	NewTek, Heathkit, RCA, others	Calibar and other models
Decade Box (R, C, and L) Dummy Loads	Ohmite and others	Multiple models
RF Switch/Relay	Agilent (HP)	33311B/8762B
Hi-Pot Tester	Hipotronics, Biddle	HV AC/DC Tester, 230315 (AC only)
Megger	Megger	MIT525, MIT520, MIT515, MIT510

Automatic Fiber Inspection & Analysis	VIAVI, EXFO	FiberChek, Sidewinder, MaxTester
xDSL DSLAM	Alcatel, Lucent, others	7330 iSAM, Stinger
Networking Products (Hub/Switch/Router)	Agilent (HP)	81104A
Networking Products (Hub/Switch/Router)	Cisco Systems	Catalyst 2500, 2511, 2900 XL, 3500 XL, 6500 (Cards: WS-C6509, WS-X6348, WS-X6408A-GBIC, WS-X6K-SUP1-2GE, WS-X6101-OC12-MMF)
Networking Products (Hub/Switch/Router)	Linksys (Cisco Systems)	WUSB11, WPC11, WMP54G, WRT54G, WVC54G, EZXS55W, BEFSR41, WRT160N
Networking Products (Hub/Switch/Router)	Netgear	FS508, FS750T
Networking Products (Hub/Switch/Router)	3Com	3300, 3C16980
Soldering Stations	Weller, Pace, Hakko, Hexacon	WTCPS, WTCPT, WD2

NOTE: Should add EMI broadband antennas, and ESD testers. Also, add DMMs, scopes, and generators used at FD.