

**ONE SYSTEM MANY FUNCTIONS**

- ✓ IC Tester
- ✓ Word Processor
- ✓ μ C Development system
- ✓ Simple Cable Tester

TEKLAB introduced **Universal IC Tester TL-UIT 40** can test gates, buffers and decoder ICs in-circuit. IC test clip is optionally provided, which the IC could be tested without removing it from board. A maximum of six logic inputs could be driven, and three logic outputs could be monitored in in-circuit testing mode (F9).

TL - UIT 40 is the latest Microcontroller based **UNIVERSAL IC TESTER** from **TEKLAB INDIA SOLUTIONS** it functionally tests a wide variety of Analog / Linear ICs including ADC, DAC, DPM ICs, Op Amps, Transistor arrays, waveform generators and Digital ICs including Microprocessors, Microcontrollers, EPROMs, RAMs, Peripheral devices apart from 74 series of TTL ICs and 40/45 series of CMOS ICs.

FEATURES

- No personality cards / reference IC/ IC Data required.
- ONE mode to test IC Once
- CON mode to test IC continuously
- STEP mode to test step by step
- Buzzer to indicate bad ICs
- Reliable PC Keyboard to enter IC number and commands
- Potential free 40 pin ZIF socket for easy insertion of IC under test
- Protection against wrong insertion
- Simple cable tester with learning facility.
- Alphanumeric 40 x 2 backlit LCD for displaying messages.
- RS232 serial interface for expansion of IC Test Library.
- Built in self-Test to test hardware, firmware, display, keyboard and buzzer
- Built in Word processor mode which converts the system into an electronic typewriter.
- Indigenously developed universal pin driver technology used.
- Help message through F1 Key

TL – UIT-40 TEST LIBRARIES

DIGITAL IC	
MICROPROCESSORS	8085, 8400 (Z80 CPU), 6502
MICROCONTROLLERS	MCS-51 μ Cs (8031/8051/8751/8951/8032/8052/8952)
PERIPHERAL ICS	All commonly used Peripheral ICs 8255, 8279, 8253, 8251, 8259, 8155 etc
EPROMS	27 series of EPROMs (Blank Check only) 2716, 2732, 2764, 27128, 27256, 27512, 27010, 27020, 27040, 27080
EEPROMS	28 series of EEPROMs (Blank Check only) 2816, 2864, 2865, 28256, 52B33
CMOS RAMS	6116, 6264, 62256, 628128, 48Z02, 48Z08, 1220
74 SERIES OF TTL ICS, 40 AND 45 SERIES CMOS ICS	<p>7400 ,7401,7402 ,7403 ,7404, 7405, 7406, 7407, 7408 ,7409, 7410 ,7411,7412 ,7413 ,7414,7415 ,7416, 7417, 7418 ,7419, 7420, 7421, 7422, 7424 ,7425 ,7426, 7427,7428 ,7430 ,7432, 7433, 7437, 7438 ,7439, 7440, 7442,7443 ,7444,7445, 7446, 7447, 7448, 7451,7454, 7459 ,7464,7470 ,7472 ,7473, 7474, 7475, 7476, 7477 ,7480,7482,7483 ,7485, 7486, 7487, 7490,7492, 7493,7494,7495,7496,74102,74103,74106,74107,74108, 74109, 74112,74113,74114,74121,74122,74123,74125,74126,74128, 74132,74133,74134,74135 74136,74137,74138 ,74139,74140, 74145, 74147,74148 ,74150 ,74151,74152,74153,74154,74155, 74156,74157,74158,74160,74161,74162,74163,74164,74165,74166, 74168,74169,74170,74173,74174,74175,74176,74177,74180,74181, 74182,74190,74191,74192,74194,74195,74196,74197,74198,74199, 74221,74240, 74241,74242,74243,74244,74245,74247,74248, 74249,74251,74253,74256,74257,74258,74259,74260,74266,74277, 74279,74280,74283,74290,74293,74295,74298,74299,74347,743507, 74352,74353,74364, 74365,74366,74367,74368,74373,74374, 74375,74377,74393,74423,74447,74490,74534,74540,74541,74563, 74564,74573,74574,74640, 74556,74641,74642,74645,74670</p> <p>4000 ,4001, 4002 ,4006,4008 4009, 4010, 4011,4012 ,4013 4014,4015, 4016 ,4017, 4018 4019, 4020, 4021, 4022 ,4023 4024, 4025, 4026, 4027, 4028 4029 ,4030, 4032, 4033, 4034, 4035, 4037 ,4038, 4040,4041, 4042 4043,4044,4049,4050,4051,4052,4053,4063,4066,4068,4069,4070, 4071 ,4072, 4073, 4075, 4076 4077,4078 4081 4082,4085 ,4086, 4093, 4094,4095 ,4096,4099,40101,40102,40103,40104,40106,40107,40117, 40147,40160,40161,40162,40163,40174,40175,40182,40192,40193,40194, 40195,40257, 40518,</p> <p>4501,4502,4503,4506,4508,4510,4511,4512,4513,4514, 4516,,4518,4519,4520,4529,4530,4531, 4532,4543,4553,4554,4555, ,4560 ,4561 4572 ,4584 ,4585</p>

ANALOG/LINEAR ICs

OPERATIONAL AMPLIFIERS	<p>LM101, LM107, LM108, LM112, LM124, LM143, LM144, LM148, LM149, LM158, LM192, LM1201, LM207, LM208, LM212, LM216, LM224, LM248, LM249, LM258, LM292, LM2301, LM307, LM308, LM312, LM316, LM324, LM343, LM348, LM349, LM351, LM356, LM357, LM358, LM392, LM709, LM714, LM725, LM741, LM747, LM748, LM1458, LM1558, LM 2902, LM2924, LM 3301, LM3401,</p> <p>HA17080, HA17082, HA17083, HA17084, HA17301, HA17324, HA17358, HA117458, HA17474, HA17558, HA17741, HA17747, HA17902, HA17904,</p> <p>UCOP01, UCOP02, CA3130, CA3140,</p> <p>TLO74, TL084.</p>
COMPARATORS	<p>LM106, LM111, LM119, LM139, LM160. LM161, LM198, LM206, LM211, LF211, LM219, LM239, LM260, LM261, LM293, OM306, LM311, LF311, LM319, LM339, LM360, LM361, LM393, LM710, LH2111, LH2211, LH2311, LM2901, LM3302,</p> <p>HA17339, HA17393, HA17901, HA17903.</p>
TRANSISTOR ARRAYS	<p>ULN2001, ULN2002, ULN2003, ULN2004, ULN2005, ULN2064, ULN2065, ULN2066, ULN2067, ULN2068, ULN2069, ULN2074, ULN2075,</p> <p>TD62501, TD62502, TD62503, TD62504, TD62505, TD62506, TD62507, 75064, 75065, 75066, 75067, 75068, 75069, 75074, 75075, 75430, 75446, 75447, 75448, 75449, 75450, 75460, 75465, 75466, 75467, 75468, 754698, 75470, 75491, 75492.</p>
DPM ICs	7107, 7135
V TO F CONVERTER	LM331, LM231, LM131.
WAVEFORM GENERATOR	8038
CROSS POINT SWITCHES	CD22100, CD42100
PWM GENERATOR	SG3524
OPTO COUPLERS	<p>MTC2, MCT2E, MCT6, MCT6E,</p> <p>4N25, 4N26, 4N27, 4N28, 4N32, 4N33, 4N35, 4N36, 4N37, 6N135, 6N136, 6N137, 6N138, 6N139,</p> <p>TIL112, TIL113, TIL114, TIL115, TIL116, TIL117, TIL118, TIL119, TIL127, TIL128, TIL153, TIL154, TIL155, TIL156, TIL157, TIL181, TIL189, TIL190,</p> <p>MOC3009, MOC3010, MOC3011, MOC3012, MOC3020, MOC3021, MOC3022, MOC3023, HCPL2502, HCPL2601, HCPL2630,</p> <p>OP18012, OP1I8013, OP 18014, OP1805.</p>
ANALOG SWITCHES/MULTIPLEXERS	CD4016, CD4066, CD4051, CD4052, CD4053, HI200, HI201, HI300, HI301, HI302, HI303, HI304, HI305, HI306, HI307.
VOLTAGE FOLLOWERS	LM102, LM202, LM302, LM110, LM210, LM310, LM2110, LM2210, LM2310.
TIMERS	LM555, NE555, HA17555
A TO D CONVERTER	ADC801, ADC0802, ADC0803, ADC0804, ADC0809
D TO A CONVERTER	DAC0800, DAC0806, DAC0807, DAC0808, HA17008R, HA17408
MISCELLANEOUS LINEAR ICs	75182, 75183, 75189, DS7820A, DS7830, DS8820A, DS8830, MC1489.

TL-UIT 40 has facility for expansion of test ee through RS232C serial interface. If the data sheets of the new IC are furnished along with sample ICs, we could develop the testing program if the IC is testable in **TL-UIT 40**. After downloading this test program in TL-UIT 40, the new IC could be tested.

TECHNICAL SPECIFICATIONS

TEST RANGE	Digital and Analog/Linear ICs 6, 8, 14, 16, 18, 20, 24, 28 & 40 pin in Dual in Line (DIP) package.
SOCKET	40 Pin Universal type ZIF (Zero Insertion Force) Socket with lever for easy insertion and removal.
DISPLAY	40 x 2 Backlit alphanumeric LCD displays
KEYBOARD	External IBM-PC PS/2 keyboard
VOLTAGE	230V, AC 50Hz +10%
ENCLOSURE	Sheet Metal cabinet with powder coating and Engraving
DIMENSION	34x31x9cm
WEIGHT	5.5 Kgs. Approximately



Manufactured by,

TEKLAB INDIA SOLUTIONS

AN ISO 9001: 2015 COMPANY

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