

AccessionIndex: TCD-SCSS-T.20251002.003

Accession Date: 2-Oct-2025

Accession By: Dr.Brian Coghlan

Object name: Texas Instruments 7400 series transistor-transistor (TTL) chips

Vintage: 1963

Synopsis: Medium-scale-integration (MSI) logic.

Description:

Buie (TRW), Beeson (Fairchild) and Longo (Sylvania) proposed transistor-transistor logic (TTL) in 1961. Sylvania Electric was the first to manufacture devices that used this technology in 1963, however it was Texas Instruments that developed a very extensive and widely-used range of transistor-transistor logic (TTL) chips, first the 5400 series, then the 7400 series, eventually the de facto logic device family, second-sourced from numerous suppliers, and available in low-power, schottky, and CMOS technologies.

Many thanks to Brian Coghlan for donating these items.

The homepage for this catalog is at: <https://www.scss.tcd.ie/SCSSTreasuresCatalog/>
 Click '*Accession Index*' (1st column listed) for related folder, or '*About*' for further guidance.
 Some of the items below may be more properly part of other categories of this catalog,
 but are listed here for convenience.

Accession Index	Object with Identification
TCD-SCSS-T.20251002.003	Texas Instruments 7400 series transistor-transistor (TTL) chips. Medium-scale-integration (MSI) logic. 1963.
TCD-SCSS-T.20251002.003.000	5 x SN74LS00N and 6 x DM74LS00N and 1 x HD74HC00P and 7 x MM74C00N and 1 x Signetics N74LS00A and 1 x F74F00PC and 1 x F74ACT00PC and 5 x SN7400N and 2 x SN74S00N.
TCD-SCSS-T.20251002.003.001	5 x SN74LS01N and 1 x RS 7401.
TCD-SCSS-T.20251002.003.002	9 x DM74LS02N and 3 x Signetics 74LS02N and 5 x SN7402N and 1 x F74LS02PC and 2 x F7402N.
TCD-SCSS-T.20251002.003.003	6 x DM74LS03N and 1 x DM7403N.
TCD-SCSS-T.20251002.003.004	1 x SN7404N and 1 x DM7404N and 1 x MC74HC04AN and 2 x SN74LS04N.
TCD-SCSS-T.20251002.003.005	5 x DM74LS05N and 1 x Signetics N74S05A.
TCD-SCSS-T.20251002.003.006	2 x SN7406N and 1 x DM7406N.
TCD-SCSS-T.20251002.003.007	2 x SN7407N.
TCD-SCSS-T.20251002.003.008	3 x SN74LS08N and 11 x T74LS08B1 and 5 x F74LS08PC and 2 x DM74LS08N and 1 x Signetics 74LS08N and 3 x SN7408N and 1 x SN74S08N and 1 x 74H08.
TCD-SCSS-T.20251002.003.009	5 x DM74LS09N and Signetics N7409A and SN74S09N.
TCD-SCSS-T.20251002.003.010	1 x SN74S10 and 3 x SN74LS10N and 2 x Signetics 74LS10N.
TCD-SCSS-T.20251002.003.011	5 x DM74LS11N.
TCD-SCSS-T.20251002.003.012	5 x SN7412N and 1 x SN74LS12N and 3 x DM74LS12N.
TCD-SCSS-T.20251002.003.013	4 x SN7413N and 1 x SN74LS13N.
TCD-SCSS-T.20251002.003.014	Missing 7414.
TCD-SCSS-T.20251002.003.015	5 x SN74LS15N.
TCD-SCSS-T.20251002.003.016	1 x SN7416 N and 3 x RS 7416.
TCD-SCSS-T.20251002.003.017	2 x SN7417N and 4 x DM7417N.
TCD-SCSS-T.20251002.003.018	Missing 7418.
TCD-SCSS-T.20251002.003.019	Missing 7419.
TCD-SCSS-T.20251002.003.020	1 x SN74LS20N and 1 x DM74LS20N and 2 x Signetics 74LS20N.
TCD-SCSS-T.20251002.003.021	Missing 7421.
TCD-SCSS-T.20251002.003.022	Missing 7422.
TCD-SCSS-T.20251002.003.023	Missing 7423.
TCD-SCSS-T.20251002.003.024	Missing 7424.
TCD-SCSS-T.20251002.003.025	Missing 7425.
TCD-SCSS-T.20251002.003.026	Missing 7426.
TCD-SCSS-T.20251002.003.027	Missing 7427.
TCD-SCSS-T.20251002.003.028	Missing 7428.
TCD-SCSS-T.20251002.003.029	Missing 7429.
TCD-SCSS-T.20251002.003.030	Missing 7430.
TCD-SCSS-T.20251002.003.031	Missing 7431.
TCD-SCSS-T.20251002.003.032	1 x SN74LS32N and 1 x HD74HC32P.
TCD-SCSS-T.20251002.003.033	1 x SN74LS33N.
TCD-SCSS-T.20251002.003.034	Missing 7434.

TCD-SCSS-T.20251002.003.035	Missing 7435.
TCD-SCSS-T.20251002.003.036	Missing 7436.
TCD-SCSS-T.20251002.003.037	Missing 7437.
TCD-SCSS-T.20251002.003.038	2 x DM74LS38N.
TCD-SCSS-T.20251002.003.039	Missing 7439.
TCD-SCSS-T.20251002.003.040	2 x EL7440.
TCD-SCSS-T.20251002.003.041	Missing 7441.
TCD-SCSS-T.20251002.003.042	2 x SN74LS42N.
TCD-SCSS-T.20251002.003.043	Missing 7443.
TCD-SCSS-T.20251002.003.044	Missing 7444.
TCD-SCSS-T.20251002.003.045	1 x Signetics 7445B. 1 x DM7445N.
TCD-SCSS-T.20251002.003.046	2 x DM7446AN.
TCD-SCSS-T.20251002.003.047	2 x SN7447AN, 2 x SN74LS47N.
TCD-SCSS-T.20251002.003.048	2 x DM7448N.
TCD-SCSS-T.20251002.003.049	Missing 7449.
TCD-SCSS-T.20251002.003.050	2 x EL7450.
TCD-SCSS-T.20251002.003.051	1 x SN7451J, 1 x T7451.
TCD-SCSS-T.20251002.003.052	Missing 7452.
TCD-SCSS-T.20251002.003.053	1 x ZN7453E, 1 x ITT7453N.
TCD-SCSS-T.20251002.003.054	2 x DM7454N.
TCD-SCSS-T.20251002.003.055	Missing 7455.
TCD-SCSS-T.20251002.003.056	Missing 7456.
TCD-SCSS-T.20251002.003.057	Missing 7457.
TCD-SCSS-T.20251002.003.058	Missing 7458.
TCD-SCSS-T.20251002.003.059	Missing 7459.
TCD-SCSS-T.20251002.003.060	2 x EL 7460.
TCD-SCSS-T.20251002.003.061	Missing 7461.
TCD-SCSS-T.20251002.003.062	Missing 7462.
TCD-SCSS-T.20251002.003.063	Missing 7463.
TCD-SCSS-T.20251002.003.064	Missing 7464.
TCD-SCSS-T.20251002.003.065	Missing 7465.
TCD-SCSS-T.20251002.003.066	Missing 7466.
TCD-SCSS-T.20251002.003.067	Missing 7467.
TCD-SCSS-T.20251002.003.068	Missing 7468.
TCD-SCSS-T.20251002.003.069	Missing 7469.
TCD-SCSS-T.20251002.003.070	1 x SN7470N, 1 x ZN7470E.
TCD-SCSS-T.20251002.003.071	Missing 7471.
TCD-SCSS-T.20251002.003.072	Missing 7472.
TCD-SCSS-T.20251002.003.073	2 x DM74LS73AN.
TCD-SCSS-T.20251002.003.074	2 x SN7474N and 5 x DM74LS74N.
TCD-SCSS-T.20251002.003.075	1 x DM7475N, 2 x SN7475N.
TCD-SCSS-T.20251002.003.076	1 x DM7476N, 2 x SN74LS76N.
TCD-SCSS-T.20251002.003.077	Missing 7477.
TCD-SCSS-T.20251002.003.078	Missing 7478.
TCD-SCSS-T.20251002.003.079	Missing 7479.
TCD-SCSS-T.20251002.003.080	Missing 7480.
TCD-SCSS-T.20251002.003.081	Missing 7481.
TCD-SCSS-T.20251002.003.082	Missing 7482.
TCD-SCSS-T.20251002.003.083	1 x DM74LS83AN.

TCD-SCSS-T.20251002.003.084	Missing 7484.
TCD-SCSS-T.20251002.003.085	Missing 7485.
TCD-SCSS-T.20251002.003.086	Missing 7486.
TCD-SCSS-T.20251002.003.087	Missing 7487.
TCD-SCSS-T.20251002.003.088	Missing 7488.
TCD-SCSS-T.20251002.003.089	Missing 7489.
TCD-SCSS-T.20251002.003.090	1 x MM74C90N.
TCD-SCSS-T.20251002.003.091	1 x ITT7491AN.
TCD-SCSS-T.20251002.003.092	2 x Signetics 7492A.
TCD-SCSS-T.20251002.003.093	2 x DM74LS93N, 1 x MM74C93N.
TCD-SCSS-T.20251002.003.094	2 x Signetics 7494N.
TCD-SCSS-T.20251002.003.095	2 x ITT7495.
TCD-SCSS-T.20251002.003.096	Missing 7496.
TCD-SCSS-T.20251002.003.097	4 x F7497PC.
TCD-SCSS-T.20251002.003.098	Missing 7498.
TCD-SCSS-T.20251002.003.099	Missing 7499.
TCD-SCSS-T.20251002.003.100	Missing 74100.
TCD-SCSS-T.20251002.003.101	Missing 74101.
TCD-SCSS-T.20251002.003.102	Missing 74102.
TCD-SCSS-T.20251002.003.103	1 x SN74H103N.
TCD-SCSS-T.20251002.003.104	Missing 74104.
TCD-SCSS-T.20251002.003.105	Missing 74105.
TCD-SCSS-T.20251002.003.106	Missing 74106.
TCD-SCSS-T.20251002.003.107	2 x DM74LS107N.
TCD-SCSS-T.20251002.003.108	Missing 74108.
TCD-SCSS-T.20251002.003.109	2 x SN74LS109AN.
TCD-SCSS-T.20251002.003.110	Missing 74110.
TCD-SCSS-T.20251002.003.111	Missing 74111.
TCD-SCSS-T.20251002.003.112	2 x DM74LS112N, 2 x SN74S112N.
TCD-SCSS-T.20251002.003.113	1 x DM74LS113N.
TCD-SCSS-T.20251002.003.114	2 x DM74LS114N.
TCD-SCSS-T.20251002.003.115	Missing 74115.
TCD-SCSS-T.20251002.003.116	Missing 74116.
TCD-SCSS-T.20251002.003.117	Missing 74117.
TCD-SCSS-T.20251002.003.118	2 x SN74118.
TCD-SCSS-T.20251002.003.119	Missing 74119.
TCD-SCSS-T.20251002.003.120	Missing 74120.
TCD-SCSS-T.20251002.003.121	2 x SN74121N.
TCD-SCSS-T.20251002.003.122	1 x 74122.
TCD-SCSS-T.20251002.003.123	2 x SN74LS123N.
TCD-SCSS-T.20251002.003.124	9 x SN74S124N and 2 x SN74LS124N.
TCD-SCSS-T.20251002.003.125	2 x DM74LS125AN.
TCD-SCSS-T.20251002.003.126	2 x DM74LS126N.
TCD-SCSS-T.20251002.003.127	Missing 74127.
TCD-SCSS-T.20251002.003.128	Missing 74128.
TCD-SCSS-T.20251002.003.129	Missing 74129.
TCD-SCSS-T.20251002.003.130	Missing 74130.
TCD-SCSS-T.20251002.003.131	Missing 74131.
TCD-SCSS-T.20251002.003.132	1 x DM74132N, 1 x DM74LS132N.

TCD-SCSS-T.20251002.003.133	2 x SN74S133N, 2 x F74LS133PC.
TCD-SCSS-T.20251002.003.134	Missing 74134.
TCD-SCSS-T.20251002.003.135	Missing 74135.
TCD-SCSS-T.20251002.003.136	2 x SN74LS136N.
TCD-SCSS-T.20251002.003.137	Missing 74137.
TCD-SCSS-T.20251002.003.138	5 x SN74LS138N and 1 x 74HC138AP.
TCD-SCSS-T.20251002.003.139	8 x F74LS139PC and 9 x SN74LS139N and 2 x DM74LS139N.
TCD-SCSS-T.20251002.003.140	Missing 74140.
TCD-SCSS-T.20251002.003.141	2 x SN74141N.
TCD-SCSS-T.20251002.003.142	Missing 74142.
TCD-SCSS-T.20251002.003.143	Missing 74143.
TCD-SCSS-T.20251002.003.144	Missing 74144.
TCD-SCSS-T.20251002.003.145	Missing 74145.
TCD-SCSS-T.20251002.003.146	Missing 74146.
TCD-SCSS-T.20251002.003.147	2 x SN74147N.
TCD-SCSS-T.20251002.003.148	2 x DM74148N.
TCD-SCSS-T.20251002.003.149	Missing 74149.
TCD-SCSS-T.20251002.003.150	1 x SN74150N, 1 x DM74150N.
TCD-SCSS-T.20251002.003.151	2 x DM74LS151N.
TCD-SCSS-T.20251002.003.152	Missing 74152.
TCD-SCSS-T.20251002.003.153	1 x SN74153N, 1 x F74F153PC and 1 x F74ACT153PC.
TCD-SCSS-T.20251002.003.154	5 x DM74LS154N and 5 x Signetics 74LS154N and 1 x SN74154N and 1 x ITT74154J.
TCD-SCSS-T.20251002.003.155	2 x SN74LS155N.
TCD-SCSS-T.20251002.003.156	2 x DM74LS156N.
TCD-SCSS-T.20251002.003.157	2 x SN74157N.
TCD-SCSS-T.20251002.003.158	2 x SN74LS158N.
TCD-SCSS-T.20251002.003.159	Missing 74159.
TCD-SCSS-T.20251002.003.160	3 x SN74LS160N.
TCD-SCSS-T.20251002.003.161	1 x SN74161N and 1 x F74F161APC and 1 x F74ACT161PC.
TCD-SCSS-T.20251002.003.162	2 x SN74LS162AN.
TCD-SCSS-T.20251002.003.163	2 x Signetics N74163B.
TCD-SCSS-T.20251002.003.164	1 x SN74164N and 2 x F74F164N and 9 x DM74LS164N and 1 x DM74164N and SN74164J.
TCD-SCSS-T.20251002.003.165	1 x DM74165N.
TCD-SCSS-T.20251002.003.166	2 x SN74166N and 9 x SN74LS166N.
TCD-SCSS-T.20251002.003.167	Missing 74167.
TCD-SCSS-T.20251002.003.168	Missing 74168.
TCD-SCSS-T.20251002.003.169	2 x DM74LS169AN.
TCD-SCSS-T.20251002.003.170	Missing 74170.
TCD-SCSS-T.20251002.003.171	Missing 74171.
TCD-SCSS-T.20251002.003.172	Missing 74172.
TCD-SCSS-T.20251002.003.173	1 x Signetics 74LS173N.
TCD-SCSS-T.20251002.003.174	1 x Signetics 74F174N, 2 x Am25LS174PC.
TCD-SCSS-T.20251002.003.175	2 x SN74LS175N.
TCD-SCSS-T.20251002.003.176	Missing 74176.
TCD-SCSS-T.20251002.003.177	Missing 74177.
TCD-SCSS-T.20251002.003.178	Missing 74178.
TCD-SCSS-T.20251002.003.179	Missing 74179.

TCD-SCSS-T.20251002.003.180	1 x74180 (label underneath).
TCD-SCSS-T.20251002.003.181	Missing 74181.
TCD-SCSS-T.20251002.003.182	1 x SN74182N.
TCD-SCSS-T.20251002.003.183	Missing 74183.
TCD-SCSS-T.20251002.003.184	Missing 74184.
TCD-SCSS-T.20251002.003.185	Missing 74185.
TCD-SCSS-T.20251002.003.186	Missing 74186.
TCD-SCSS-T.20251002.003.187	Missing 74187.
TCD-SCSS-T.20251002.003.188	Missing 74188.
TCD-SCSS-T.20251002.003.189	2 x SN74LS189AN.
TCD-SCSS-T.20251002.003.190	Missing 74190.
TCD-SCSS-T.20251002.003.191	2 x DM74191N and 1 x F74LS191PC.
TCD-SCSS-T.20251002.003.192	Missing 74192.
TCD-SCSS-T.20251002.003.193	8 x DM74LS193N and HD74LS193P.
TCD-SCSS-T.20251002.003.194	2 x DM74LS194AN.
TCD-SCSS-T.20251002.003.195	1 x Signetics 74195N.
TCD-SCSS-T.20251002.003.196	Missing 74196.
TCD-SCSS-T.20251002.003.197	1 x SN74197N.
TCD-SCSS-T.20251002.003.198	Missing 74198.
TCD-SCSS-T.20251002.003.199	Missing 74199.
TCD-SCSS-T.20251002.003.225	4 x SN74S225J.
TCD-SCSS-T.20251002.003.240	6 x SN74LS240N.
TCD-SCSS-T.20251002.003.241	2 x SN74LS241N.
TCD-SCSS-T.20251002.003.242	2 x Signetics 74LS242N.
TCD-SCSS-T.20251002.003.243	2 x Am25LS243PC.
TCD-SCSS-T.20251002.003.244	4 x SN74LS244N and 2 x SN74F244N and 1 x F74ACT244PC and 2 x DM74LS244N and 2 x RS 74LS244 and 1 x F74LS244PC.
TCD-SCSS-T.20251002.003.245	1 x SN74LS245N and 3 x Signetics 74F245N and 1 x F74F245PC and 5 x F74ACT245N.
TCD-SCSS-T.20251002.003.251	2 x SN74LS251N.
TCD-SCSS-T.20251002.003.253	2 x Am25LS253PC.
TCD-SCSS-T.20251002.003.257	2 x Am25LS257N.
TCD-SCSS-T.20251002.003.259	2 x SN74LS259N.
TCD-SCSS-T.20251002.003.260	2 x SN74S260N.
TCD-SCSS-T.20251002.003.273	2 x SN74LS273N.
TCD-SCSS-T.20251002.003.279	2 x DM74LS279N.
TCD-SCSS-T.20251002.003.288	1 x SN74S288N.
TCD-SCSS-T.20251002.003.298	2 x Signetics 74LS298N.
TCD-SCSS-T.20251002.003.322	2 x SN74LS322AN.
TCD-SCSS-T.20251002.003.323	1 x SN74LS323N.
TCD-SCSS-T.20251002.003.362	Missing 74362 (TIM9904) 4-phase clock generator.
TCD-SCSS-T.20251002.003.364	1 x Signetics 74LS364N.
TCD-SCSS-T.20251002.003.365	2 x DM74LS365AN.
TCD-SCSS-T.20251002.003.367	1 x Signetics 74367AN and 1 x DM74367N.
TCD-SCSS-T.20251002.003.368	1 x SN74LS368AN and RS 74LS368.
TCD-SCSS-T.20251002.003.373	3 x Signetics 74F373N and 7 x F74ACT373N and 6 x IDT74HCT373P.
TCD-SCSS-T.20251002.003.374	8 x SN74AS374N and 2 x RS 74F374 and 1 x F74F374PC

	and 16 x F74ACT374N and 4 x SN74S374N.
TCD-SCSS-T.20251002.003.377	2 x SN74LS377N.
TCD-SCSS-T.20251002.003.381	1 x SN74S381N.
TCD-SCSS-T.20251002.003.387	1 x SN74S387N.
TCD-SCSS-T.20251002.003.390	4 x F74LS390PC and 2 x SN74LS390N.
TCD-SCSS-T.20251002.003.393	14 x SN74LS393N and 2 x F74LS393PC.
TCD-SCSS-T.20251002.003.436	2 x SN74S436N.
TCD-SCSS-T.20251002.003.524	1 x F74F524PC.
TCD-SCSS-T.20251002.003.540	10 x SN74HC540N.
TCD-SCSS-T.20251002.003.574	8 x SN74AS574N.
TCD-SCSS-T.20251002.003.595	1 x Philips 74HC595N.
TCD-SCSS-T.20251002.003.610	2 x T.I. SN74LS610N 4-to-12-bit memory address mapper.
TCD-SCSS-T.20251002.003.622	4 x SN74LS622N.
TCD-SCSS-T.20251002.003.645	2 x SN74LS645-1N.
TCD-SCSS-T.20251002.003.646	2 x SN74LS646NT.
TCD-SCSS-T.20251002.003.668	6 x SN74LS668N.
TCD-SCSS-T.20251002.003.670	3 x SN74LS670N.
TCD-SCSS-T.20251002.003.688	2 x SN74LS688N.
TCD-SCSS-T.20251002.003.708	1 x F74ACT708DC.
TCD-SCSS-T.20251002.003.908	2 x MM74C908.
TCD-SCSS-X.20250916.001	Dr.Brian Coghlan's Collection of Early Microprocessors. An extensive and nearly complete set of unused 1970s microprocessor chips, most accompanied with documentation, some with demonstration boards. 1971.

References:

1. Wikipedia, *7400-series integrated circuits*, see: https://en.wikipedia.org/wiki/7400-series_integrated_circuits
Last browsed to on 2-Oct-2025.