



DIGI BOARD 2

Overview:

A comprehensive training and experiment board designed for foundational education in **digital technology and microcomputer systems**. The DIGI BOARD 2 integrates all necessary function groups along with a built-in power supply, enabling a quick and efficient setup of experiments. Suitable for desktop, rack-mounted, and portable applications.

Functional Groups:

- **Input Systems:**
 - 2 input keyboards with 4 pairs of L/H keys each
 - Hexadecimal/dual coding switch (double)
 - Adapter (2 mm jacks to SUB-D 25-pin connector)
- **Signal Generation and Display:**
 - Crystal-controlled TTL-level clock generator with divider
 - DC signal source: 0–5 V / 10 mA
 - LED display in 3 colors: red, yellow, green
 - 2-digit 7-segment display with dual/7-segment decoder
 - HIGH/LOW taps for signal level testing
- **Logic & Arithmetic:**
 - 8 AND gates (1 disconnectable, pull-up resistors)
 - 6 OR gates (1 disconnectable, pull-down resistors)
 - 3 AND/OR combi gates
 - 1-bit and 4-bit comparators
 - 2 x 4-bit adders with carry-in and carry-out
 - ALU for 16 arithmetic + 16 logic operations (4-bit)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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• Sequential Components:

- 4 JK flip-flops (can function as RS flip-flops)
- 4 D flip-flops
- Monoflop with settable durations: 0.1 s, 1 s, 5 s
- 4-bit shift register (parallel/serial, bidirectional)
- 4-bit binary up/down counter

• Signal Conversion and Memory:

- Multiplexer and Demultiplexer (4-channel each)
- Inverters (open collector, pull-up connectable)
- Inverting Schmitt triggers
- 4-bit one's complement negation
- Antivalence and equivalence gates
- RAM 8×4 static
- EEPROM 8×4, ~1 hr retention w/o power
- AD/DA converters (4-bit)

• Mechanical and Electrical Specs:

- **Board version dimensions:** 532 × 297 × 95 mm | Weight: 3.5 kg
- **Box version:** 580 × 450 × 155 mm | Weight: 7.5 kg
- **Power Supply:**
 - Mains: 230 V / 115 V AC, 30 VA, 50–60 Hz
 - Output: +5 V DC / 1 A (internal), +5 V / 0.5 A (external)

Expansion and Accessories:

- Plug-in module support
- IC board and sockets (types 3530, 9156.x)
- Universal PCBs, jack kits, stickers
- **Experiment manual:** "Experiments in Digital Technology" (Type V 0160)
- 2 mm connecting lead set (Type 3910.1)

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DEMONSTRATION BOARDS

Overview:

A modular system of display and input boards for **demonstrating digital logic functions**. These boards complement the DIGI BOARD 2 and follow the same 2 mm jack connection standard.

Available Modules and Key Features:

Type	Module	Functionality	Current Consumption
3701	Clock Generator	0.1 Hz – 100 kHz, with divider	110 mA
3702	Input Keyboard	4 pairs of keys (L/H), with LED indicators	10–50 mA
3703	OR / AND Gates	Two OR, one AND gate, 4 inputs	10–20 mA
3704	Hex Switch + Signal	Hex switch, pushbutton, signal source, 7-seg display	130–200 mA
3705	AND / OR Gates	Two AND, one OR gate	10–20 mA
3706	AND/OR Combi Gate	3 Combi gates (inverted output included)	20–30 mA
3707	1-bit Comparator	Antivalence, equivalence, 1-bit compare	25–35 mA
3708	Adder	4-bit with carry in/out	50–65 mA
3709	4-bit Comparator	Cascading input capable	8–15 mA
3710	Multiplexer / Demux	4-channel each, with inverted outputs	30–50 mA
3711	D-Flipflops	4 x D-FFs	15–25 mA
3712	JK-Flipflops	2 x JK-FFs (RS mode)	30–40 mA
3713	Shift Register	4-bit, bi-directional, parallel/serial	15–25 mA
3714	Schmitt + Inverter	2 Schmitt, 2 open-collector inverters	30–50 mA
3715	Monoflop + Logic	Mono (0.1s, 1s, 5s) + AND/OR gates	25–30 mA
3716	One's Complement	Negates 4-bit binary	10–20 mA
3717	Binary Counter	4-bit synchronous, up/down	20–40 mA
3718	RAM	8x4 static	10–30 mA
3719	ALU	4-bit, 32 functions (arith + logic)	5–30 mA
3720	LED Display	12 LEDs in 3 colors	10–300 mA
3722	EEPROM	8x4 bits, ~1 hr retention	10–30 mA
3723	7-Segment Display	2-digit, 65 mm height, dual/7-seg decoder	250–300 mA
3724	AD/DA Converter	4-bit each	20–50 mA

General Specifications:

- **Dimensions per Board:** 133 × 297 mm; depth: 90–100 mm
- **Weight:** 0.6–0.7 kg

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- **Construction:** 5 mm laminate panel, matt blue with white engravings; ergonomic grey plastic rear casing
- **Operating Voltage:** 5 V DC via external power supply (e.g. Type 1002.3)
- **Protection:** Overvoltage and reverse polarity protected (max. 30 V DC)

Recommended Accessories:

- **Experiment Manual:** "Experiments in Digital Technology" (Type V 0160)
Topics include:
 - Logic circuits
 - Schmitt triggers
 - Flip-flops
 - Code converters
 - Counters
 - Registers
 - Multiplexers
 - ALU and Memory
 - A/D and D/A conversion

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