Digital / Microcontroller Technology

MICROCONTROLLER BOARD

Universal Training System for Microcontroller Technology

Key Features

- Based on **Siemens 80C535** microcontroller (8051 family)

- Supports **BASIC** and **Assembler** programming

- Communication via **RS 232** with an IBM-compatible PC

- Supplied with **µVision2** (Keil Software) and **BASCOM LT DEMO** (MCS-Electronics)

- Operates with **terminal emulator** for program execution

- Compatible with **8051winLight** or **8051win** (for data transfer)

I/O and Functional Units

- **Digital I/O:**
  20 TTL programmable I/Os (bit/byte addressable), with LED status indicators
  Input voltage up to 24 V, current max. 180 mA

- **Analog Inputs:**
  4 channels, ±10 V range, 10-bit resolution (13 µs at 8-bit)

- **Analog Outputs:**
  4 channels, ±10 V, 20 mA, 800 ns conversion time

- **Timers:**
  3 configurable timers (counter, gate time, prescaler etc.)

- **Watchdog Timer**, **Reset**, and **Start-RAM Function**

Memory Configuration

- 32 KB ROM (terminal emulator)

- 32 KB RAM

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

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- 8 KB EEPROM (optional, Type 28C64/28C65, 200 ns access time)

Technical Data

- **Power Supply:** 230/115 V AC, 50–60 Hz, 40 VA

- **Aux Output:** 5 V / 500 mA

- **Dimensions:** 266 × 297 × 90 mm (W × H × D)

- **Weight:** Approx. 2.2 kg

- **Front Panel:** 5 mm laminate (blue with white printing)

- **Rear Cover:** Angled grey plastic

Accessories Included

- µVision2 & BASCOM LT DEMO (English)

- Serial interface cable (2 m, 9-pin SUB-D)

Required Accessories

- IBM-compatible PC with RS 232 (Windows 98 or later)

Recommended Accessories

- **Experiment Manual** (Type V 0150)

- **EEPROM Type 3850.4 (28C64/28C65)**

- **8051winLight / 8051win** (SIMulations-SOFTware)

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