

LAPTOP TRAINER

GENERAL DESCRIPTION

The DB-5400 Laptop Training system is a didactically represented module that will provide complete hardware details, their used and safety tips about environmental concerns, power protection and unauthorized software. It will aid new employees in maintaining and cleaning, displays, keyboards etc. The system will provide insight on installing internal hardware devices such as, motherboards; power supplies, and hard drives. Also provide scope to assemble and disassemble work as well as the learners can perform troubles hooting of any hardware and software related issues.

DB-5400

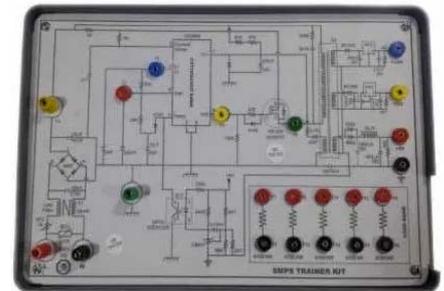


Picture for Reference

Specification

Hardware:

- ❖ Processor: 12th generation Intel Core i7 C.P.U, Processor Speed 2.5 GHz
- ❖ Chip-set: Integrated SoC
- ❖ Memory: DDR4-3200 on-board, up to 16GB, dual channel
- ❖ Display: 15.6" FHD(1920x1080), IPS - Level panel
- ❖ Graphics: Intel® Arc™ A370M Graphics 4GB GDDR6 (Optional)
- ❖ Storage: Slot 1 x NVMe M.2 SSD by PCIe Gen3 x4
- ❖ Input Single Backlit Keyboard (White)
- ❖ Communication: Intel® Wi-Fi 6 AX201 + Bluetooth v5.2
- ❖ Audio 2 × 2W Speakers / 1 × Audio combo jack Hi-Res Audio Ready
- ❖ I/O Port- 1 x USB 3.2 Gen2 Type-C (w/ PD Charging)
- ❖ I/O Port- 1 x USB 3.2 Gen2 Type-A, 2 x USB 2.0 Type-A
- ❖ I/O Port- 1 x HDMI (4K@60Hz), 1 x micro SD Card Reader, 1 x DC-in
- ❖ Color: Classic Black
- ❖ Battery/Adapter :3-Cell, Li-Polymer, 52 Whr (support fast charging) 90W
- ❖ Webcam: HD type (30fps@720p)
- ❖ Wireless Keyboard and Mouse



Specifications:

- Input: 80 to 230 V AC ±10%, 50 Hz
- Outputs: +12 V DC regulated, -12 V DC regulated, +5 V DC regulated
- Switching Transformer Input: 320 V DC switching at 132 KHz
- Fuse: 2A
- Load provided for testing the DC outputs
- Variac Is also Provided as optional for Input Voltage
- All interconnections are made using 2mm socket
- Test points are provided to analyze signals at various points.
- Circuit Diagram provided on the front panel.
- Bare board Tested Glass Epoxy SMOBC PCB with Block Diagram.
- Attractive ABS Plastic Enclosure.

Experiments That Can Be Performed:

- Study of Switching Transformer.
- Study of PWM switching device.
- Study of Opt coupler.
- Study of Regulation.
- Study of SMPS with Variable input (Optional)

Accessories:

- Set of Users Guide & theory book provided with each unit.
- Standard Tool Box kit