

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Trainer Series

Electronic Trainers

PB-503C Portable Analog & Digital Design Workstation



Features:

- Ideal for analog, digital and microprocessor circuits
- Housed in a portable rugged metal case
- Ample room for storage of meter, probes and other accessories
- Includes built-in Function Generator with continuously variable waveforms
- Triple output power supply for a variety of DC voltage levels
- Two Digital Pulsers for logic test circuits
- High & low buffered logic indicators
- 8 channel logic monitor
- Audio experimentation speaker
- Removable breadboard plate allows the flexibility of building circuits away from the lab
- Analog & Digital optional courseware available
- 3-year warranty on all parts and workmanship.



Innovative Training Solutions

Global Specialties Model PB-503C is a Portable Analog & Digital Design Workstation. The PB-503C's newly updated, robust design makes it a trainer suitable for all levels of electronics instruction and design. With its new heavy duty case design, it has plenty of room for storage, making it highly suitable for distance learning applications and students on the go.

The PB-503C's breadboarding area is comprised of Global's "Premium" solderless breadboards and is backed by an industry leading 3-year warranty.

The PB-503C can be used to construct basic series and parallel circuits up to the most complicated multi-stage microcomputer circuits, incorporating the latest in industrial technology.

The PB-503C allows students to learn valuable hands-on lab experience by employing necessary breadboarding techniques, which provide a solid foundation in circuit experimentation, analyzing and troubleshooting.

Experienced designers will also find the PB-503C an invaluable, capable and reliable instrument, suitable for the most advanced and demanding design applications.

Global Specialties trainers provide the most complete platform required to enable engineers and technicians to train for careers in the rapidly growing field of electronics technology.

www.globalspecialties.com

Use the PB-503C to construct a wide variety of experiments, including but not limited to:

- Opto-Device Circuits
- Clocks
- Multivibrators
- Oscillator Circuits
- Timers
- Function Generator Circuits
- Logic Circuits
- Gates
- Counters
- Flip-Flops
- Analog-to-Digital Converters
- Digital-to-Analog Converters
- Medium Scale Integration Circuits
- Phase Lock Loops
- Operational Amplifier

Portable Analog & Digital Design Workstation

Specifications

Model	PB-503C
Input power Source	AC Line: 115VAC @ 60Hz (typical)
Power Supplies	Fixed DC: +5VDC 1.0A max, current limited Ripple, <5mV Variable + DC: +1.3V @150mA to +15VDC @ 500mA , Ripple < 5mV Variable - DC: -1.3VDC @ 150mA to -15VDC @ 500mA, Ripple < 5mV
Binding Posts	(4) Ground, +5 VDC, Variable + DC & Variable - DC Power Supply Outputs
Pulsers	(2) Pushbutton-operated, open-collector output pulsers. Each with 1 normally-open, 1 normally- closed output. Each output sinks up to 250 mA
Function Generator	Frequency Range: 0.1Hz to 100KHz, six ranges Output Voltage: 0 to ± 10 Vp-p into 50 Ω Load (20Vp-p in open circuit), short circuit protected Output Impedance: 600 Ω except TTL Output waveforms: Sine, Square, Triangle & TTL Sine Wave Distortion: <3% @ 1KHz Typical TTL Pulse: Rise & fall time: <25ns, drive 100 TTL Loads (TTL is available when the function generator is set to Square Wave Mode) Square Wave: Rise and fall times <0.5 μ s
Logic Switches	(8) Logic Switches select Logic High and Logic Low Logic Low Level: Ground Logic High Level: Switchable between +5V and the variable positive power supplies.
Switches	(2) Single Pull Double Throw (SPDT) - uncommitted
Logic Indicators	LEDs: 16 LEDs; (8) red to indicate logic high and (8) green to indicate logic low Logic High Threshold: 2.2V (nominal) in TTL/+5V mode, 70% (nominal) of selected operating voltage in CMOS mode Logic Low Threshold: 0.8V (nominal) in TTL/+5V mode, 30% (nominal) of selected operating voltage in CMOS mode
Connectors	2 ea BNC - uncommitted
Potentiometers	2: 1 k Ω and 10 k Ω - uncommitted
Speaker	8 Ω , 0.25 W - uncommitted
Breadboards	Removable Plexiglas Socket Plate (PB-3) with 2520 Tie points with 200 additional buss strip tie points internally connected to power supply outputs and ground
Weight	7 lbs 13 oz (3.6 kg)
Dimensions	14 x 19 x 7" (355 x 482 x 178 mm)

Technical data subject to change without notice.



Innovative Training Solutions

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Optional Accessories

Courseware: Available separately or as a package (Model PB-503C Lab).

WK-1: Jumper Wire Kit, 350 pieces

WK-2: Jumper Wire Kit, 140 pieces

WK-3: Jumper Wire Kit, 70 pieces

WK-4: Wire Jumper Kit, 100 wires with machined tips

GSPA Series: Prototyping adapters

GSPA-K1: Surface mount to DIP adapter kit, 6 adapter boards

GSPA-K2: Surface mount to DIP adapter kit, 11 adapter boards

GSA-3185: Minipro Test Clip Set

PRO-50A: Digital Multimeter

The **PB-503C Lab** package offers comprehensive course instruction covering the following areas:

Electronic Fundamentals

Fundamentals of Electricity

Ohm's Law

Series Circuits, Parallel Circuits

Combinational Circuits

Current Control

Closed, open, shorts

Switches

Thevenin's Theorem

Wheatstone Bridge

Capacitors, Inductors

Phase Shift Circuits

Impedance

Resonant Circuits

Transformers

Rectifiers & Filtering

Integrated Circuits

Transistor Amplifiers

Oscillators

Power Control Circuits

Digital Electronics

Number Systems & Codes

Binary, Decimal, Hexadecimal, Octal & ASCII

Logic Gates & Boolean Algebra

Combinational Logic Circuits

Flip-Flops

Digital Arithmetic

Counters & Registers

Integrated Circuit Logic Families

TTL Logic

MOSFETS

CMOS

Interfacing CMOS & TTL

Medium Scale Integration

Decoders

Encoders

Data Conversion & Acquisition

Microcomputer Concepts

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