# Sprint QUAD

## M u l t i S y t e   P r o g r a m m e r

### Congratulations on purchasing your new Sprint QUAD

The Sprint QUAD® is a desktop IC Programmer that can accommodate various devices in four removable TOPs.

The serial number of the base is located on the back of the unit.

### This guide describes:

- Parts included with the QUAD
- Assembly Instructions
- System Requirements
- Operating Requirements
- IC Package Support
- Sales and Technical Support

### For more information...

on your Sprint family programmer or using the software, refer to documentation on the "TaskLink™ for Windows®" CD.

**Data I/O**

**In this package you will find:**

- TaskLink CD-ROM (software and User Manual)
- QUAD base
- 25 pin, 1:1 parallel cable, 32″ long
- OPTIMA Booster
- Power Cord
- Calibration tool
- Four TOP Installation Kits—each kit consists of one 'T'-bar and two locating pins.

TOPs and Adapters are boxed separately.

*Note: When ordering new TOPs or Adapters, also order a TOP Installation Kit for each one to facilitate quick changes.*

# Assembly Instructions

> *WARNING: Electrostatic Discharge (ESD) may damage integrated circuits. Do not touch circuit boards on the unit without a suitable grounding strap (not included). A grounding strap should also be worn at all times while programming devices. A static ground connection is provided on the front of the unit.*

Before beginning, ensure that the power is turned off at both the programmer and your computer.

### Installing TOPs

1. Turn the TOP upside-down and examine the pins to verify that they are straight.

2. Install a TOP Installation Kit for each TOP by positioning the 'T'-bar over the two thread inserts, knob-side up. Then screw a locating pin into each of the thread inserts to secure the 'T'-bar. See figure 2.

3. Holding the TOP right side up and at a 45 degree angle to the base, hook the plastic tab on the TOP into the notch in the base.

4. Lower the TOP until it rests on the base, rock it gently to ensure it is in place and press down. See figure 3.

> *WARNING: Damage may occur to the connector pins. Do not press the TOP if you meet resistance. The pins may not be properly lined up with the pin connector strip on the base. Remove the TOP and try again.*
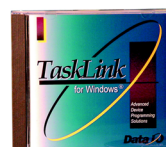


OPTIMA Booster



Calibration Tool
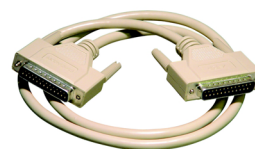


Parallel Cable



TaskLink CD



Nylon bag containing the OPTIMA Booster, the calibration tool, the parallel cable, a power cord and four TOP Installation Kits.
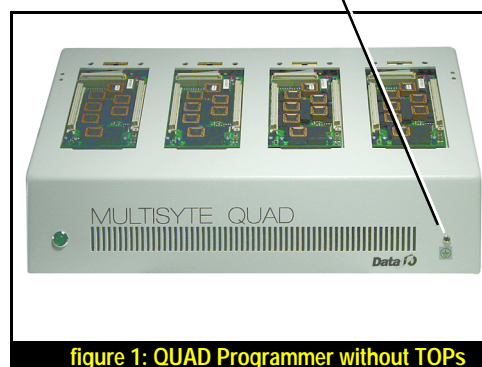
Static Ground Connection



figure 1: QUAD Programmer without TOPs

## Connecting the Cables

1. Connect one end of the parallel cable to the port on the back of the programmer. See figure 4.

2. Connect the other end of the parallel cable to the parallel port of your computer. If your computer has more than one parallel port, any empty parallel port may be used.

3. Connect the power cord to the back of the unit and to a 100-250 Volt, 50-60 Hz AC outlet. See figure 5.

> **WARNING:  A device may be damaged if it is in a TOP socket during power up. Remove all devices before turning on the power switch.**

You are now ready to install the *TaskLink for Windows* software and begin programming devices. Refer to the *TaskLink for Windows* CD. To install the software see the jewel case front tray liner.

*Note: Some parallel ports have hardware characteristics that may cause problems communicating with the programmer. If you see the message "Found slow printer port" during installation, install the OPTIMA Booster supplied with your programmer. Follow the instructions "Installing the OPTIMA Booster for a Slow Printer Port" found on the* TaskLink for Windows *CD.*

## System Requirements

- Microsoft Windows 95, Windows 98 or Windows NT
- 75MB free hard disk space
- CD-ROM drive
- Bus or serial mouse
- Parallel port

## Operating Requirements

- Operating voltage: 100-240V∼ ±10%
- Frequency range: 50-60 Hz
- Power consumption: 482 Watts

## IC Package Support

With the addition of TOPs or Production Adapters the QUAD Programmer supports packages DIP, PLCC, LCC, SOIC, TSOP, PGA, QFP, μBGA and others.
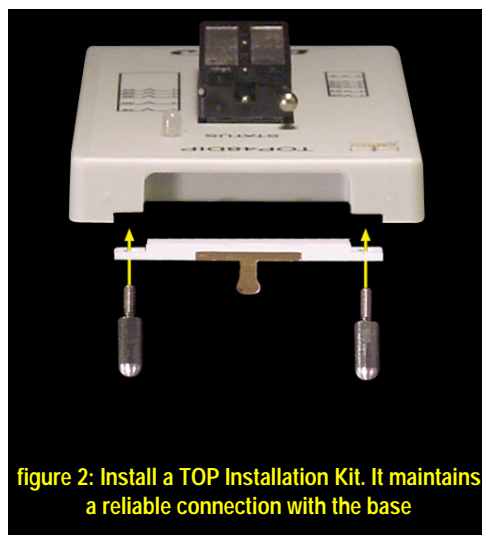


figure 2: Install a TOP Installation Kit. It maintains a reliable connection with the base



figure 3: Installing a TOP



figure 4: Rear View showing the Parallel Port



figure 5: Rear View. Power switch and connector

## Sales and Technical Support

Contact your local Data I/O representative or see the contacts below. To find your local representative on our Web site go to http://www.dataio.com/RepSearch.asp

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## When calling or writing, please provide the following information:

- Serial number
- Interface—"*TaskLink for Windows*" or "*Sprint Windows*"
- Software Version
- Detailed description of the problem you are experiencing
- Error messages (if any)
- Device manufacturer, part number, package style and number of pins (if device-related)
- Name, telephone number and address

On the World Wide Web, contact us at http://www.dataio.com
or at our Germany Web site at http://www.dataio.de.

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