



R6500 Microcomputer System DATA SHEET

SINGLE-CHIP PRINTER CONTROLLER

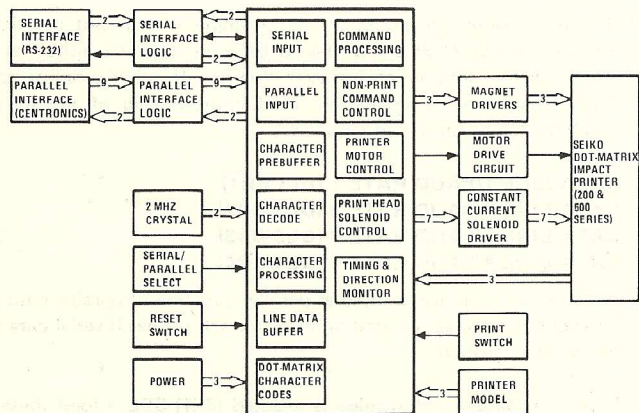
INTRODUCTION

The Rockwell R6592 is a single-chip printer controller for eight different Seiko* dot-matrix impact printers, models 210, 220, 240, 511L, 512, 522, 541L, and 542. The R6592 offers the flexibility to support any of these models with a minimum of circuitry. Generation of 96 standard ASCII upper and lower case characters and 6 special characters is provided. In addition, up to 10 ASCII control commands are accepted, depending upon the printer. Logic is included in the R6592 to print up to 26 columns on the 210, 220, and 240 models, and up to 40 columns on the 511L, 512, 522, 541L, and 542 models.

Input data may be selected to be in the RS-232 serial format with selectable baud rate from 50 to 7200 bits/second or the parallel format. External circuitry is required to convert RS-232 logic levels to R6592 interface logic levels. An external latch may be required for the R6592 to sample parallel data. If both selectable serial and parallel data interface capability is desired, two external multiplexers are required; one to combine four serial baud select lines and four parallel data interface lines into four R6592 input lines and the other to combine two serial data/control lines and two parallel control lines into two other R6592 input lines.

This data sheet summarizes the interface specifications of the R6592. Product Description 29650N56 describes the operation of the R6592 in detail.

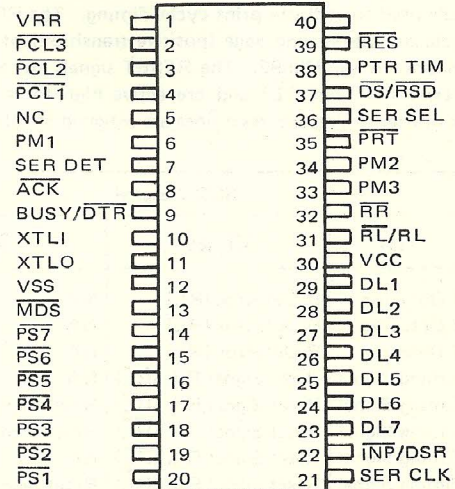
*Seiko Printers are manufactured by EPSON, a subsidiary of Shinshu Seiki Co., Ltd. and are distributed in the United States by C. Itoh Electronics, Inc. The R6592 meets the printer specifications as listed in this data sheet.



R6592 Interface Diagram

FEATURES

- Controls Seiko Dot-Matrix Impact Printers:
 - Model 210
 - Model 220
 - Model 240
 - Model 511L
 - Model 512
 - Model 522
 - Model 541L
 - Model 542
- Minimal Support Circuitry Required
- On-Chip 5 x 7 Dot-Matrix Character Generation
- 96 Standard Upper and Lower Case ASCII Characters (7 Bit Code)
- 6 Special ASCII Characters (7 Bit Code)
- Up to 10 ASCII Commands Accepted (Printer Dependent)
- Selectable Serial or Parallel Input Data Operation
- Centronics Standard Parallel Interface
 - Seven Data Lines Plus Data Strobe and Input Drive Input
 - Busy and Acknowledge Output
- RS-232C Serial Interface
 - Baud Rate from 50 to 7200 Bits per Second
 - Received Data and Data Set Ready Input
 - Data Terminal Ready Output
- Single +5V ±10% power supply
- 40 pin plastic or ceramic DIP
- 1 MHz operation (2 MHz external crystal)



R6592 Pin Configuration

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