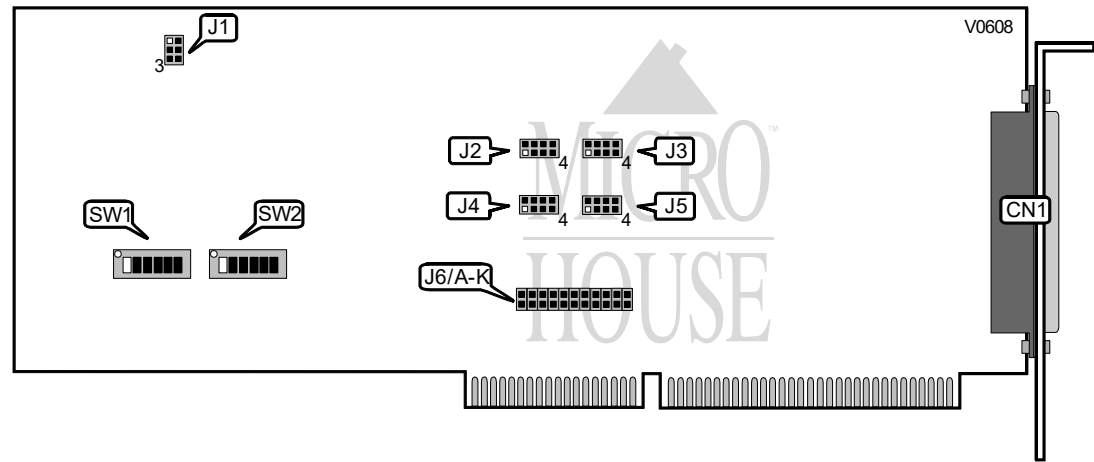


QUATECH, INC.  
QS-200D/DS, QS-300D/DS

|                    |                   |
|--------------------|-------------------|
| Card Type          | Serial controller |
| Chipset/Controller | 16450/16550 UART  |
| I/O Options        | Serial ports (4)  |
| Maximum DRAM       | N/A               |



| CONNECTIONS  |          |
|--|----------|
| Purpose  | Location |
| Serial ports (4) connector - DB-37   | CN1      |
| Note: CN1 can be converted to four DB-25 serial ports via a proprietary converter cable. |          |

| CLOCK SPEED |                                 |
|-------------|---------------------------------|
| MHz         | J1                              |
| 1.8432MHz   | pins 1 & 2, 4 & 5, 3 & 6 closed |
| 3.6864MHz   | pins 2 & 3, 4 & 5 closed        |
| 9.216MHz    | pins 1 & 2, 5 & 6 closed        |
| 18.432MHz   | pins 2 & 5 closed               |

| SERIAL PORT 1 REQUEST TO SEND (RTS)/CLEAR TO SEND (CTS) MODE |                          |
|--|--------------------------|
| Setting  | J2                       |
| Loopback RTS to CTS  | pins 1 & 5 closed        |
| RTS transmit on AUXOUT/CTS receive on AUXIN                  | pins 1 & 2, 5 & 6 closed |

| SERIAL PORT 2 RTS/CTS MODE                  |                          |
|---|--------------------------|
| Setting                                     | J3                       |
| Loopback RTS to CTS                         | pins 1 & 5 closed        |
| RTS transmit on AUXOUT/CTS receive on AUXIN | pins 1 & 2, 5 & 6 closed |

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| SERIAL PORT 3 RTS/CTS MODE                  |                          |
|---|--------------------------|
| Setting                                     | J4                       |
| í Loopback RTS to CTS                       | pins 1 & 5 closed        |
| RTS transmit on AUXOUT/CTS receive on AUXIN | pins 1 & 2, 5 & 6 closed |

| SERIAL PORT 4 RTS/CTS MODE                  |                          |
|---|--------------------------|
| Setting                                     | J5                       |
| í Loopback RTS to CTS                       | pins 1 & 5 closed        |
| RTS transmit on AUXOUT/CTS receive on AUXIN | pins 1 & 2, 5 & 6 closed |

| SERIAL PORT 1 RCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J2                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Receive RCLK on AUXIN   | pins 2 & 3 closed |

| SERIAL PORT 2 RCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J3                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Receive RCLK on AUXIN   | pins 2 & 3 closed |

| SERIAL PORT 3 RCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J4                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Receive RCLK on AUXIN   | pins 2 & 3 closed |

| SERIAL PORT 4 RCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J5                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Receive RCLK on AUXIN   | pins 2 & 3 closed |

| SERIAL PORT 1 XCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J2                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Transmit XCLK on AUXOUT | pins 6 & 7 closed |

| SERIAL PORT 2 XCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J3                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Transmit XCLK on AUXOUT | pins 6 & 7 closed |

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| SERIAL PORT 3 XCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J4                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Transmit XCLK on AUXOUT | pins 6 & 7 closed |

| SERIAL PORT 4 XCLK MODE |                   |
|-------------------------|-------------------|
| Setting                 | J5                |
| í Loopback XCLK to RCLK | pins 3 & 7 closed |
| Transmit XCLK on AUXOUT | pins 6 & 7 closed |

| SERIAL PORT 1 AUXIN/AUXOUT LOOPBACK |                   |
|-------------------------------------|-------------------|
| Setting                             | J2                |
| í AUXIN/AUXOUT loopback enabled     | pins 2 & 6 closed |
| AUXIN/AUXOUT loopback disabled      | pins 2 & 6 open   |

| SERIAL PORT 2 AUXIN/AUXOUT LOOPBACK |                   |
|-------------------------------------|-------------------|
| Setting                             | J3                |
| í AUXIN/AUXOUT loopback enabled     | pins 2 & 6 closed |
| AUXIN/AUXOUT loopback disabled      | pins 2 & 6 open   |

| SERIAL PORT 3 AUXIN/AUXOUT LOOPBACK |                   |
|-------------------------------------|-------------------|
| Setting                             | J4                |
| í AUXIN/AUXOUT loopback enabled     | pins 2 & 6 closed |
| AUXIN/AUXOUT loopback disabled      | pins 2 & 6 open   |

| SERIAL PORT 4 AUXIN/AUXOUT LOOPBACK |                   |
|-------------------------------------|-------------------|
| Setting                             | J5                |
| í AUXIN/AUXOUT loopback enabled     | pins 2 & 6 closed |
| AUXIN/AUXOUT loopback disabled      | pins 2 & 6 open   |

| SERIAL PORT 1 HALF/FULL DUPLEX SELECTION |                   |
|--|-------------------|
| Setting                                  | J2                |
| í Full-duplex mode enabled               | pins 4 & 8 open   |
| Half-duplex mode enabled                 | pins 4 & 8 closed |

| SERIAL PORT 2 HALF/FULL DUPLEX SELECTION |                   |
|--|-------------------|
| Setting                                  | J3                |
| í Full-duplex mode enabled               | pins 4 & 8 open   |
| Half-duplex mode enabled                 | pins 4 & 8 closed |

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| SERIAL PORT 3 HALF/FULL DUPLEX SELECTION |                   |
|--|-------------------|
| Setting                                  | J4                |
| í Full-duplex mode enabled               | pins 4 & 8 open   |
| Half-duplex mode enabled                 | pins 4 & 8 closed |

| SERIAL PORT 4 HALF/FULL DUPLEX SELECTION |                   |
|--|-------------------|
| Setting                                  | J5                |
| í Full-duplex mode enabled               | pins 4 & 8 open   |
| Half-duplex mode enabled                 | pins 4 & 8 closed |

| INTERRUPT SELECTION - J6 |        |        |        |        |        |        |        |        |        |        |        |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IRQ                      | A      | B      | C      | D      | E      | F      | G      | H      | I      | J      | K      |
| í IRQ3                   | open   | closed | open   | open   | open   | open   | open   | open   | open   | open   | open   |
| IRQ2                     | closed | open   | open   | open   | open   | open   | open   | open   | open   | open   | open   |
| IRQ4                     | open   | open   | closed | open   | open   | open   | open   | open   | open   | open   | open   |
| IRQ5                     | open   | open   | open   | closed | open   | open   | open   | open   | open   | open   | open   |
| IRQ6                     | open   | open   | open   | open   | closed | open   | open   | open   | open   | open   | open   |
| IRQ7                     | open   | open   | open   | open   | open   | closed | open   | open   | open   | open   | open   |
| IRQ10                    | open   | open   | open   | open   | open   | open   | closed | open   | open   | open   | open   |
| IRQ11                    | open   | open   | open   | open   | open   | open   | open   | closed | open   | open   | open   |
| IRQ12                    | open   | open   | open   | open   | open   | open   | open   | open   | closed | open   | open   |
| IRQ14                    | open   | open   | open   | open   | open   | open   | open   | open   | open   | closed | open   |
| IRQ15                    | open   | open   | open   | open   | open   | open   | open   | open   | open   | open   | closed |

Note: All ports share the same IRQ.

| I/O ADDRESS CONFIGURATION |                      |             |
|---------------------------|----------------------|-------------|
| Base Address              | SW1                  | SW2         |
| í 300h                    | 1, 2, 3, 4, 5 & 6 on | 3, 4 & 5 on |
| 54A0h                     | 1, 3 & 5 on          | 1, 2 & 4 on |

Note (1): The address range for the QS-200D/300D is from 0 to FFFFh. The switches are a binary representation of the addresses. When a switch is off, the corresponding bit is set to 1 and has the following decimal value: SW1/1=8, SW1/2=4, SW1/3=2, SW1/4=1, SW1/5=8, SW1/6=4, SW2/1=2, SW2/2=1, SW2/3=8, SW2/4=4, SW2/5=2. The QS-200D/300D requires 32 consecutive address locations for all four serial ports.

Note (2): The base address selected above is for Port 1. To obtain the addresses for the other ports, add to the Port 1 address the following numbers:

Port 2 address = Port 1 address + 8  
Port 3 address = Port 1 address + 16  
Port 4 address = Port 1 address + 24

| INTERRUPT STATUS REGISTER         |       |
|-----------------------------------|-------|
| Setting                           | SW2/6 |
| í Scratchpad register enabled     | Off   |
| Interrupt status register enabled | On    |