

Quadravox

QV430P Programming cradle for QV301, QV306 playback modules

Features:

- supports all varieties of QV301 and QV306 modules
- RS232 connector and level conversion for PC control
- regulated 5V, unregulated 6-18V supplies for modules
- sound card connections and channel switching jumper
- baud rate jumpers
- separate headers for QV306m4 inline and QV301 IDC connectors
- supplied with QV301 cable
- power supply optional

General description:

The QV430P programming cradle is a convenient means of making the necessary connections to program and test Quadravox ISD-based playback modules. Used in conjunction with the QV300s2 software, it enables your PC to manage projects, program the ISD devices with desired phrases, audition the sound quality, and monitor RS232 traffic with the module. The actual recording algorithm is present in every QV3xx module; the 430P is a “dumb” adapter for electrical and logical connections.

Connections:

DB9F - RS232: The RS232 connection to your PC is made with a straight-through m-f cable as used for modems. The connection uses only the RXD and TXD pins. Level conversion is provided by the MAX232 level shifter.

Module Connector 1: The IDC header is the connection point for QV301 series modules. A short cable is provided. Please note that for ease of connection the QV301 module is inverted relative to the 430P.

Module Connector 2: A two row socket is used for strength, but only one row is needed to connect to the QV306m4 module. Both rows are electrically active so it does not matter which you use. ONLY ONE module should be used with the 430P at any one time.

Power (9VDC): The power connector is a standard barrel jack with 2.1mm diameter pin. The center pin is positive. The supply voltage can be as low as 6.5V when programming the QV306, QV301m1, and QV301m4 modules- a common 9V supply is suggested. For the QV301m2 and m3, a 12V regulated supply is preferred. Please note that while any supply from 6.5V to 18V (max) can be used for these modules, the quality of the sound during recording will depend on the ripple in the supply. The recording itself will be free of hum regardless.

Sound card line out: A stereo m-m audio cable with 1/8” (3.5mm) phone plug is needed to connect the input signal to the system. The QV300s2 software places the signal to be recorded on the left channel, which is almost always connected to the tip of the plug. However, it is very occasionally connected to the ring of the plug. The jumper located just above the audio jack allows you to connect the ring to the record input. If your recordings are blank, try this connection.

To 8 ohm speaker: a 1/8" phone plug equipped speaker is required to monitor recording and playback. The jack functions only for the QV306 series; the speaker must be connected directly to the board's jack for the QV301 modules.

Jumpers and switches:

RESET: The reset button is connected to the reset line of QV306 modules. It is not functional for QV301 modules.

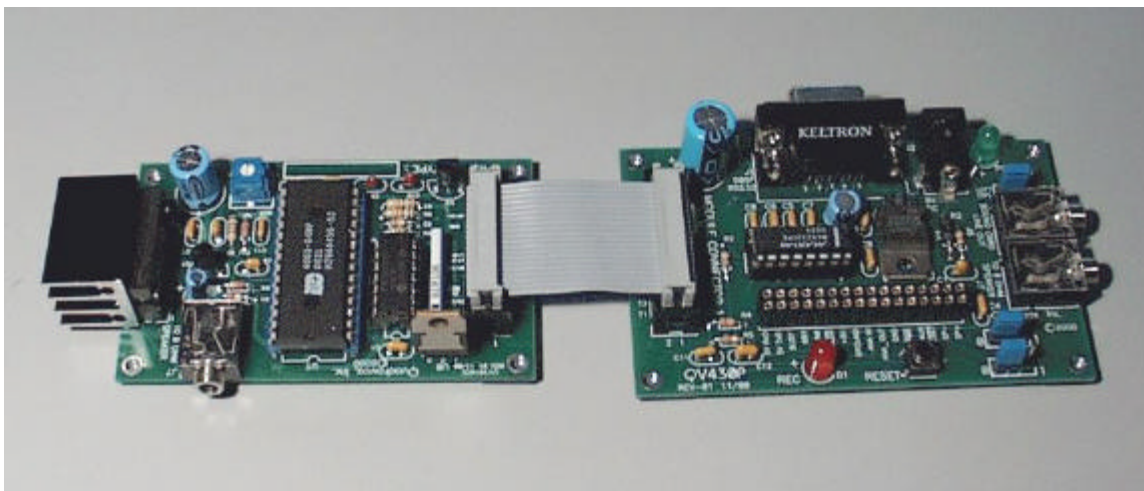
BR0, BR1: Baud rate selection for the QV306 module. Currently all QV301 modules operate at 9600B during programming and this is set automatically by the QV300S2 software. The available Baud rates and settings are:

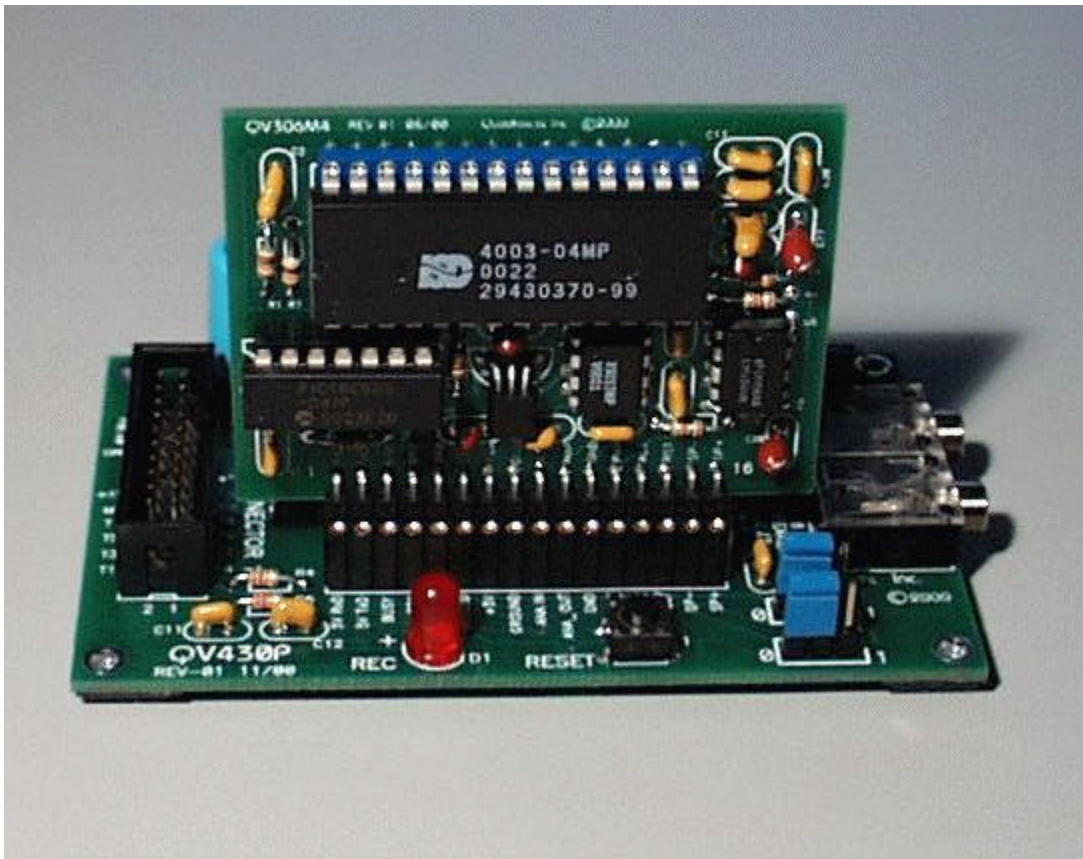
BR1=0, BR0=0: 2400B
BR1=0, BR0=1: 4800B
BR1=1, BR0=0: 9600B
BR1=1, BR0=1: 19200B

REC LED: The record LED is driven directly by the module. It should illuminate during the recording of each individual phrase.

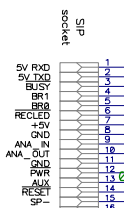
Module connections:

QV430P with QV301m2 connected





QV430P with QV306m4 inserted in inline connector



QV450 Module Programmer			
Title			
Size	Number	Rev	
C		1.1	
Date	01/02/01	Drawn by	
Filename	QV430P-SCH	Sheet	1 of 2

Online Support:

Quadravox maintains the latest specifications, schematic diagrams, and support software in the support section of our website, www.quadravox.com/support.htm.

For questions not answered there or for other inquiries, please write us at support@quadravox.com, or call 1-800-779-1909 from the U.S. and Canada, or 1-972-669-4002 from other countries.

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