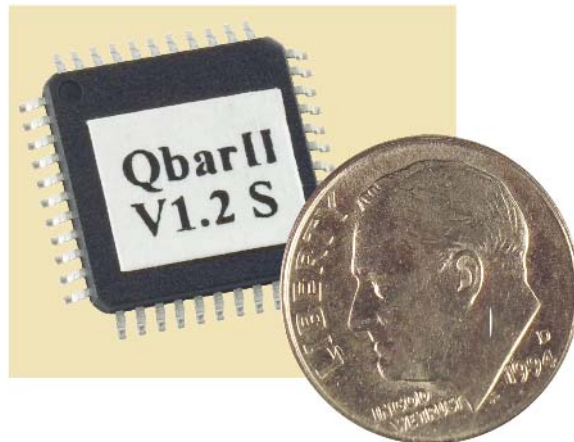


# QUICKBAR II™

High-Speed Decoding Chip  
For Bar Codes

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## Fits where other chips can't.

A fully-featured single-chip solution, QuickBar II is far smaller (just 10mm square) than traditional decoding chip sets. An audio response function is available with the addition of a beeper and a single-color "good read" LED is supported without any additional components.

## Ideal for portable and high-volume scanning applications.

QuickBar II is designed for use in hand-held scanners (laser, CCD, and wand scanners) as well as in slot readers, fixed-position scanners, decoding boxes—even portable data terminals (PDTs) with integrated scanners or undecoded external scanners.

## Delivers high performance.

ID TECH's QuickBar II chip is an exceptionally reliable high-speed decoder of bar coded data. It decodes all popular bar code symbologies, including Code 39, UPC, and Interleaved 2 of 5. Utilizing ID TECH's "on the fly" decoding technology, QuickBar II supports at scanning and decoding speeds up to 100 scans per second.

## Includes a fully-programmable memory.

QuickBar II has a programmable memory that enables rapid upgrades and easy firmware revisions. Programmable features include check digit, trigger mode, and basic editing functions (such as minimum/maximum code lengths). Yet, the simplicity of its design enables it to be an excellent low-power, low-cost alternative to chip with similar features and capabilities.

# IDT 1440 QuickBar II High-Speed Decoding Chip Specifications

## General

Microcontroller:	High-speed advanced RISC processor.
Input Options:	Undecoded laser scanner, undecoded CCD scanner, undecoded wand, undecoded slot reader.
Output Interface:	Keyboard wedge, TTL serial (RS-232C w. RS-232 chip) supports baud rates from 2400 to 38400.
Symbologies Decoded:	Code 39, Interleaved 2 of 5, Code 128, Codabar, MSI/Plessey, Code 93, Code 4, Code 5, Code 11, BC412, UPC-A, UPC-E, EAN-13, and EAN-8.
Beep Tone:	Available with the addition of a beeper (with a diode, transistor, and resistor).
Indicator:	10 mA single-color LED.
"Good Read" Output Signal:	Yes.
Trigger line:	Yes.

## User Programmable Features

Enable/disable individual symbologies  
Enable/disable, send/suppress check digit  
Send/suppress start/stop character  
Minimum/maximum code length  
Send/suppress EAN country code digits  
Enable/disable UPC/EAN separator/supplemental code ID  
Verification before good read  
Trigger mode

RS-232 options: Baud rate, data bits, stop bits, parity, flow control.

## Additional Components for the

### Basic Decode Subsystem

8 MHz Crystal:	HC-49S recommended.
DS1811 Reset IC:	SOT-23 recommended.
0.047 uf Capacitor:	0805 recommended.
22 pf Capacitor:	0805 (two recommended).
4.7 K Resistor:	0805 (four recommended).

## Mechanical

Package:	TQFP-44.
Scan Rates:	<u>Laser scanner</u> Up to 60 scans per second. <u>CCD scanner</u> Up to 100 scans per second. <u>Wand</u> 3 to 100 inches per second on a 10 mil code.
Supply Voltage:	+5 VDC.
Current Draw:	Typical 15 mA. ("Power Down" mode 0.7 mA.)
Operating Temperature:	32° F to 155° F (0° C to 70° C).
Storage Temperature:	-85° F to 302° F (-65° C to 150° C).
Chip Dimensions (Overall):	<u>TQFP-44</u> Length (maximum): 0.48 inches (12.25mm). Width (maximum): 0.48 inches (12.25mm). Thickness (maximum): 0.047 inches (1.20mm).

**IDTECH**<sup>®</sup>

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