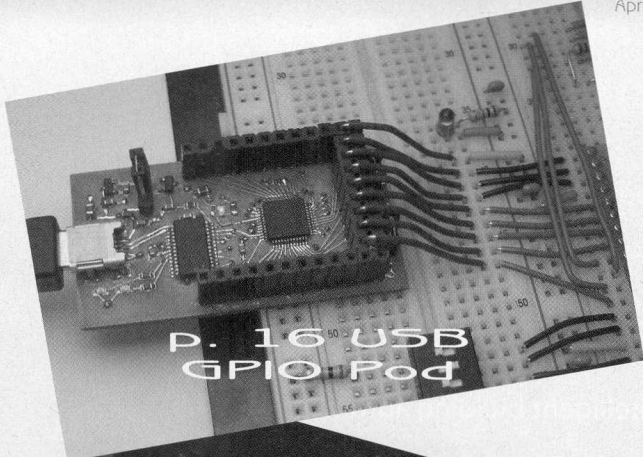


INSIDE ISSUE 225

April 2009 • Embedded Programming



P. 16 USB
GPIO Pod

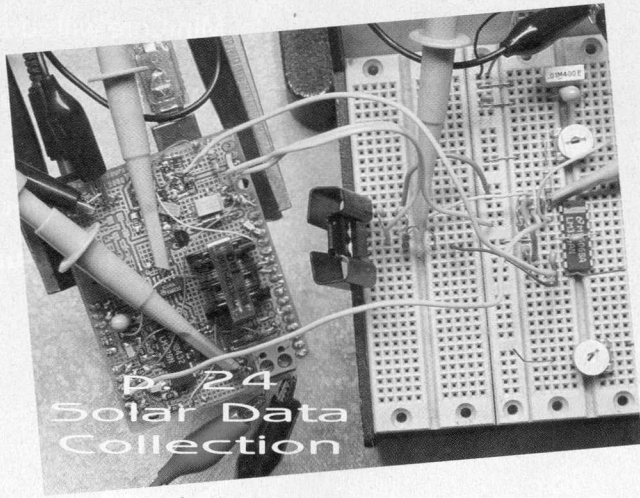


P. 40 Digital
Decoder Design

16 Construct a USB GPIO Pod (Part 1)
No Parallel Port, No Problem
DJ Delorie

30 Robot Navigation and Control (Part 2)
Software Development
Guido Ottaviani

40 Digital Decoding
Decode Periodic Signal Transmissions
Danilo Consonni



P. 24
Solar Data
Collection

24 INTELLIGENT ENERGY SOLUTIONS
ABOVE THE GROUND PLANE
Solar Data Logger (Part 1)
PCB Layout, Inductor Saturation, and Other Troubles
Ed Nisely

50 THE DARKER SIDE
Time Domain Reflectometry
Detect and Measure Impedance Mismatches
Robert Lacoste

58 FROM THE BENCH
Programmable Robotics (Part 2)
Application Development
Jeff Bachiochi

66 SILICON UPDATE
ZSTAR Trek
A Healthy Mix of MCUs, Sensors, and Wireless Technology
Tom Cantrell

TASK MANAGER **4**
Troubleshooters, Unite!
C. J. Abate

NEW PRODUCT NEWS **8**
edited by *John Gorsky*

CROSSWORD **74**

INDEX OF ADVERTISERS **79**
May Preview

PRIORITY INTERRUPT **80**
Print Is Dead—Long Live Print
Steve Ciarcia