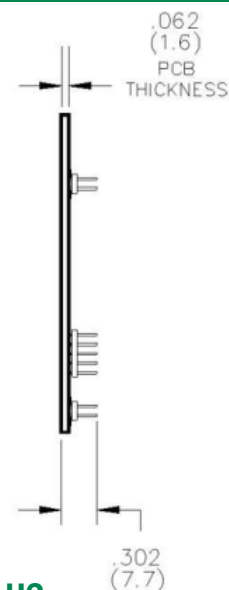


Digital Signal Conditioning Card

Technical drawing of the PCB layout for the 'Circuit for the control of the speed of a three-phase motor'. The drawing shows the placement of components on a rectangular board with rounded corners. Dimensions are given in millimeters (mm) and inches (in). The board size is 265 mm (10.43 in) by 2300 mm (90.55 in). The layout includes:

- Component Footprints:**
 - H1:** A 12-pin DIP package.
 - H2:** A 16-pin DIP package.
 - H3:** A 16-pin DIP package.
 - H4:** A 16-pin DIP package.
 - H5:** A 16-pin DIP package.
 - H6:** A 16-pin DIP package.
 - H7:** A 16-pin DIP package.
 - H8:** A 16-pin DIP package.
 - H9:** A 16-pin DIP package.
 - H10:** A 16-pin DIP package.
 - H11:** A 16-pin DIP package.
 - H12:** A 16-pin DIP package.
 - H13:** A 16-pin DIP package.
 - H14:** A 16-pin DIP package.
 - H15:** A 16-pin DIP package.
 - H16:** A 16-pin DIP package.
 - H17:** A 16-pin DIP package.
 - H18:** A 16-pin DIP package.
 - H19:** A 16-pin DIP package.
 - H20:** A 16-pin DIP package.
 - H21:** A 16-pin DIP package.
 - H22:** A 16-pin DIP package.
 - H23:** A 16-pin DIP package.
 - H24:** A 16-pin DIP package.
 - H25:** A 16-pin DIP package.
 - H26:** A 16-pin DIP package.
 - H27:** A 16-pin DIP package.
 - H28:** A 16-pin DIP package.
 - H29:** A 16-pin DIP package.
 - H30:** A 16-pin DIP package.
 - H31:** A 16-pin DIP package.
 - H32:** A 16-pin DIP package.
 - H33:** A 16-pin DIP package.
 - H34:** A 16-pin DIP package.
 - H35:** A 16-pin DIP package.
 - H36:** A 16-pin DIP package.
 - H37:** A 16-pin DIP package.
 - H38:** A 16-pin DIP package.
 - H39:** A 16-pin DIP package.
 - H40:** A 16-pin DIP package.
 - H41:** A 16-pin DIP package.
 - H42:** A 16-pin DIP package.
 - H43:** A 16-pin DIP package.
 - H44:** A 16-pin DIP package.
 - H45:** A 16-pin DIP package.
 - H46:** A 16-pin DIP package.
 - H47:** A 16-pin DIP package.
 - H48:** A 16-pin DIP package.
 - H49:** A 16-pin DIP package.
 - H50:** A 16-pin DIP package.
 - H51:** A 16-pin DIP package.
 - H52:** A 16-pin DIP package.
 - H53:** A 16-pin DIP package.
 - H54:** A 16-pin DIP package.
 - H55:** A 16-pin DIP package.
 - H56:** A 16-pin DIP package.
 - H57:** A 16-pin DIP package.
 - H58:** A 16-pin DIP package.
 - H59:** A 16-pin DIP package.
 - H60:** A 16-pin DIP package.
 - H61:** A 16-pin DIP package.
 - H62:** A 16-pin DIP package.
 - H63:** A 16-pin DIP package.
 - H64:** A 16-pin DIP package.
 - H65:** A 16-pin DIP package.
 - H66:** A 16-pin DIP package.
 - H67:** A 16-pin DIP package.
 - H68:** A 16-pin DIP package.
 - H69:** A 16-pin DIP package.
 - H70:** A 16-pin DIP package.
 - H71:** A 16-pin DIP package.
 - H72:** A 16-pin DIP package.
 - H73:** A 16-pin DIP package.
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 - H78:** A 16-pin DIP package.
 - H79:** A 16-pin DIP package.
 - H80:** A 16-pin DIP package.
 - H81:** A 16-pin DIP package.
 - H82:** A 16-pin DIP package.
 - H83:** A 16-pin DIP package.
 - H84:** A 16-pin DIP package.
 - H85:** A 16-pin DIP package.
 - H86:** A 16-pin DIP package.
 - H87:** A 16-pin DIP package.
 - H88:** A 16-pin DIP package.
 - H89:** A 16-pin DIP package.
 - H90:** A 16-pin DIP package.
 - H91:** A 16-pin DIP package.
 - H92:** A 16-pin DIP package.
 - H93:** A 16-pin DIP package.
 - H94:** A 16-pin DIP package.
 - H95:** A 16-pin DIP package.
 - H96:** A 16-pin DIP package.
 - H97:** A 16-pin DIP package.
 - H98:** A 16-pin DIP package.
 - H99:** A 16-pin DIP package.
 - H100:** A 16-pin DIP package.
- Dimensions:**
 - Overall width: 265 mm (10.43 in).
 - Overall height: 2300 mm (90.55 in).
 - Distance from top edge to H1: 2.65 mm (0.104 in).
 - Distance from bottom edge to H1: 2.300 mm (0.0905 in).
 - Distance from left edge to H1: 2.65 mm (0.104 in).
 - Distance from right edge to H1: 2.300 mm (0.0905 in).
 - Distance from top edge to H2: 2.65 mm (0.104 in).
 - Distance from bottom edge to H2: 2.300 mm (0.0905 in).
 - Distance from left edge to H2: 2.65 mm (0.104 in).
 - Distance from right edge to H2: 2.300 mm (0.0905 in).
 - Distance from top edge to H3: 2.65 mm (0.104 in).
 - Distance from bottom edge to H3: 2.300 mm (0.0905 in).
 - Distance from left edge to H3: 2.65 mm (0.104 in).
 - Distance from right edge to H3: 2.300 mm (0.0905 in).
 - Distance from top edge to H4: 2.65 mm (0.104 in).
 - Distance from bottom edge to H4: 2.300 mm (0.0905 in).
 - Distance from left edge to H4: 2.65 mm (0.104 in).
 - Distance from right edge to H4: 2.300 mm (0.0905 in).
 - Distance from top edge to H5: 2.65 mm (0.104 in).
 - Distance from bottom edge to H5: 2.300 mm (0.0905 in).
 - Distance from left edge to H5: 2.65 mm (0.104 in).
 - Distance from right edge to H5: 2.300 mm (0.0905 in).
 - Distance from top edge to H6: 2.65 mm (0.104 in).
 - Distance from bottom edge to H6: 2.300 mm (0.0905 in).
 - Distance from left edge to H6: 2.65 mm (0.104 in).
 - Distance from right edge to H6: 2.300 mm (0.0905 in).
 - Distance from top edge to H7: 2.65 mm (0.104 in).
 - Distance from bottom edge to H7: 2.300 mm (0.0905 in).
 - Distance from left edge to H7: 2.65 mm (0.104 in).
 - Distance from right edge to H7: 2.300 mm (0.0905 in).
 - Distance from top edge to H8: 2.65 mm (0.104 in).
 - Distance from bottom edge to H8: 2.300 mm (0.0905 in).
 - Distance from left edge to H8: 2.65 mm (0.104 in).
 - Distance from right edge to H8: 2.300 mm (0.0905 in).
 - Distance from top edge to H9: 2.65 mm (0.104 in).
 - Distance from bottom edge to H9: 2.300 mm (0.0905 in).
 - Distance from left edge to H9: 2.65 mm (0.104 in).
 - Distance from right edge to H9: 2.300 mm (0.0905 in).
 - Distance from top edge to H10: 2.65 mm (0.104 in).
 - Distance from bottom edge to H10: 2.300 mm (0.0905 in).
 - Distance from left edge to H10: 2.65 mm (0.104 in).
 - Distance from right edge to H10: 2.300 mm (0.0905 in).
 - Distance from top edge to H11: 2.65 mm (0.104 in).
 - Distance from bottom edge to H11: 2.300 mm (0.0905 in).
 - Distance from left edge to H11: 2.65 mm (0.104 in).
 - Distance from right edge to H11: 2.300 mm (0.0905 in).
 - Distance from top edge to H12: 2.65 mm (0.104 in).
 - Distance from bottom edge to H12: 2.300 mm (0.0905 in).
 - Distance from left edge to H12: 2.65 mm (0.104 in).
 - Distance from right edge to H12: 2.300 mm (0.0905 in).
 - Distance from top edge to H13: 2.65 mm (0.104 in).
 - Distance from bottom edge to H13: 2.300 mm (0.0905 in).
 - Distance from left edge to H13: 2.65 mm (0.104 in).
 - Distance from right edge to H13: 2.300 mm (0.0905 in).
 - Distance from top edge to H14: 2.65 mm (0.104 in).
 - Distance from bottom edge to H14: 2.300 mm (0.0905 in).
 - Distance from left edge to H14: 2.65 mm (0.104 in).
 - Distance from right edge to H14: 2.300 mm (0.0905 in).
 - Distance from top edge to H15: 2.65 mm (0.104 in).
 - Distance from bottom edge to H15: 2.300 mm (0.0905 in).
 - Distance from left edge to H15: 2.65 mm (0.104 in).
 - Distance from right edge to H15: 2.300 mm (0.0905 in).
 - Distance from top edge to H16: 2.65 mm (0.104 in).
 - Distance from bottom edge to H16: 2.300 mm (0.0905 in).
 - Distance from left edge to H16: 2.65 mm (0.104 in).
 - Distance from right edge to H16: 2.300 mm (0.0905 in).
 - Distance from top edge to H17: 2.65 mm (0.104 in).
 - Distance from bottom edge to H17: 2.300 mm (0.0905 in).
 - Distance from left edge to H17: 2.65 mm (0.104 in



H1

H2

H3

*Custom Firmware Only

PERFORMANCE SPECIFICATIONS

INPUT CHANNELS	Two Tilt Channels (X and Y tilt)
OUTPUT SIGNALS	RS232 and RS422(RS485 Full Duplex) Digital Serial, ASCII
RESOLUTION	<u>16-bit ADC</u>
SAMPLE RATES	User-selectable from 10/second to 1/hour
TEMPERATURE OUTPUT	On-board Temperature Sensor
DATA STORAGE	512 kB of nonvolatile Flash Memory available* (approx. 22,000 samples)
BAUD RATE	9600 (default), 19200, 28800, 57600, 115200, 230400
DATA FORMAT	NMEA XDR, Trimble TCM, Ashtech, Simple (X, Y, temp., S/N)
CONTROL OUTPUTS	8 TTL-compatible CMOS control outputs (0-5 VDC); 20mA source Power per channel (not to exceed 100mA across all 8 channels)
POWER REQUIREMENTS	7-28 VDC @ 27 mA, 250 mV ripple max., reverse polarity and surge protected.
CONNECTIONS	Four 24-in cables included: Two for signal (H1, one for RS232 and an- other for RS485); Power (H2); Control Output (H3)
ENVIRONMENTAL	-40° to +85° C operating and storage; 90% humidity, noncondensing
DIMENSIONS AND WEIGHT	67 x 67 x 25mm max. (2.6 x 2.6 x 1.0 inches); 31g (1.1 oz)

Specifications subject to change without notice on account of continued product development

ORDERING CODE

PART NO.	DESCRIPTION
84833-02	IRIS Signal Conditioning Card, RS232/RS422 Output, 16-bit, Dual Channel, Fixed Gain

ACCESSORIES

PART NO.	DESCRIPTION
84063-01	Extra 24-in Cable Assembly, RS232 , H1 Header to DB9-sub Connector
84063-02	Extra 24-in Cable Assembly, Power (H2)
84088-01	Extra 24-in Cable Assembly, RS422 , H1 Header to DB9-sub Connector
84083-01	24-in Tilt Switch Control Cable (Connects to H3 Terminal), Tinned Ends
00254-02	Transformer, 100-240VAC to 12VDC