

Microcontroller for ErgoTrac Pointing Device Sensor FID-824 series Example Circuit Information sheet

■ FEATURES

Please Note: this datasheet gives an example circuit for the FID-820 mechanical unit to its PS/2 controller. Actual implementation will vary depending on the final design, therefore, so will the total current consumption of the solution. Approximate current consumption of the FID-820 mechanical unit and this micro controller is around 20mA. The information below is controlled.

- Customized pointing device solution with PS/2 computability allowing increased speed of design to final product.
- RoHS compliant

■ MAIN APPLICATIONS

- Used on conjunction with the FID-820 'D' type pointing device, for PS/2 small footprint pointing solution.

■ CONSTRUCCION AND PIN OUT

- Microcontroller in a 28 pin Dual In Line through hole or 32 pin SOP (Small Outline Package).

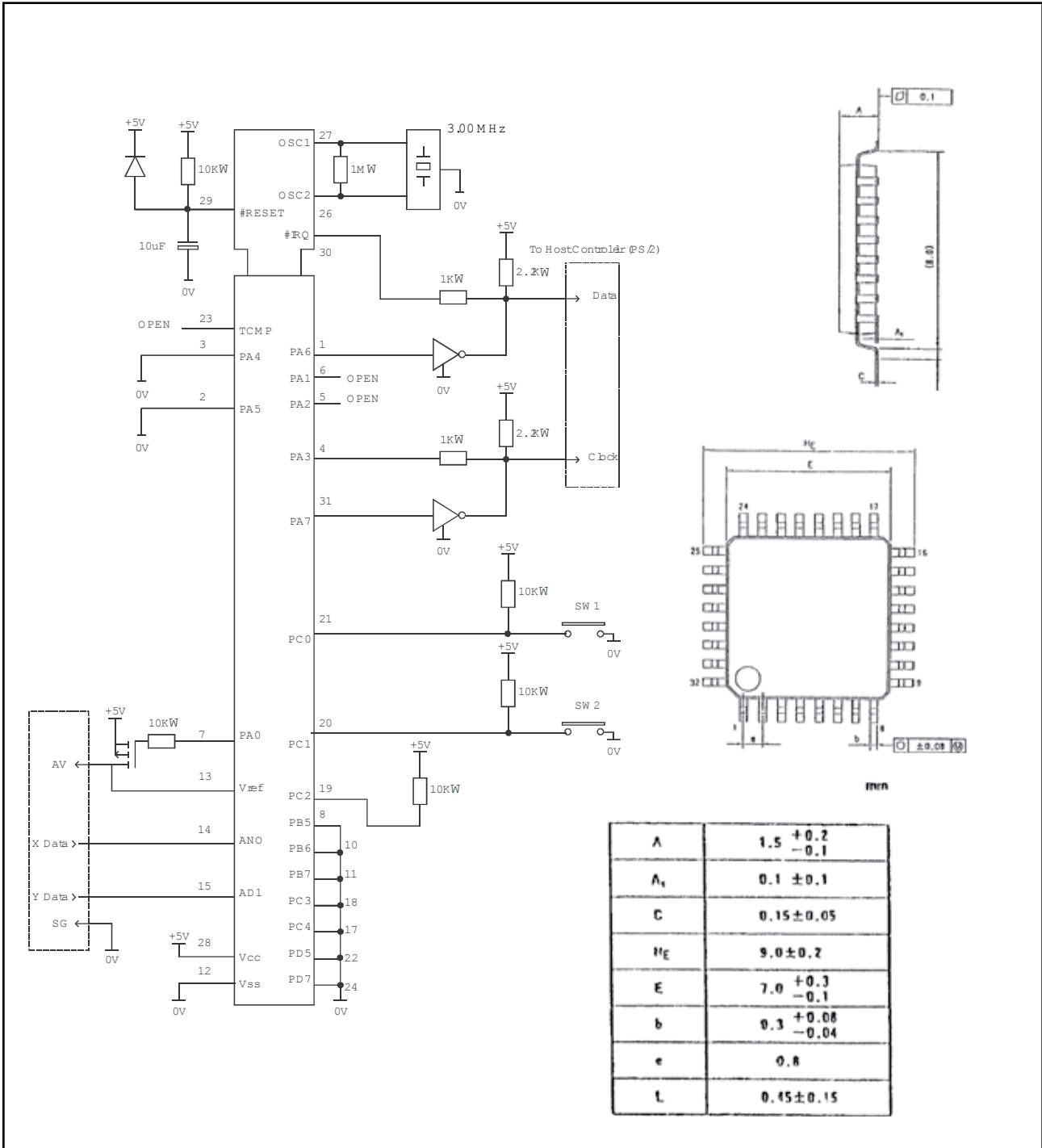
Pin SOP	Function	Pin SOP	Function
29	#RESET - Reset line	15	ANI - Analogue input 1 - Y Data
30	#IRQ - Interrupt Request	17	PC4 - Port C4 Hold low
31	PA7 - Port A7 PS/2 Clk drive	18	PC3 - Port C3 Hold low
1	PA6 - Port A6 PS/2 Data drive	19	PC2 - Port C2 Tie high via 10k pull up
2	PA5 - Port A5 Hold low	20	PC1 - Port C1 Switch 2
3	PA4 - Port A4 Hold low	21	PC0 - Port C0 Switch 1
4	PA3 - Port A3 PS/2 Clk input	22	PD5 - Port D5 Hold low
5	PA2 - Port A2 Leave open	23	TCMP - Leave open
6	PA1 - Port A 1Leave open	24	PD7 - Port D7 Hold low
7	PA0 - Port A0 Analogue supply control	26	OSC2 Oscillator Input 2
8	PB5 - Port B5 Hold low	27	OSC1 Oscillator Input 1
10	PB6 - Port B6 Hold low	28	Vcc - +5V Power Supply
11	PB7 - Port B7 Hold low	9	Pin open
12	Vss - Supply ground	16	
13	VREF - Analogue Voltage Ref. input	25	
14	AD0 - Analogue input 0-X Data	32	

FID-824 MCU

■ PART NUMBER

Part Number	Package Type
N01B-4824-B406	32 Pin Small Outline Package, (90 pieces per tray, bake before use) RoHS compliant

■ EXAMPLE CIRCUIT AND CHIP INFORMATION



Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashigotanda 2-chome, Shinagawa-ku
Tokyo 141, Japan
Tel: (81-3) 5449-7010
Fax: (81-3) 5449-2626
Email: promothq@ft.ed.fujitsu.com
Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 U.S.A.
Tel: (1-408) 745-4900
Fax: (1-408) 745-4970
Email: components@us.fujitsu.com
Web: <http://www.fujitsu.com/us/services/edevice/components/>

Europe

Fujitsu Components Europe B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: (31-23) 5560910
Fax: (31-23) 5560950
Email: info@fceu.fujitsu.com
Web: emea.fujitsu.com/components/

Asia Pacific

Fujitsu Components Asia Ltd.
102E Pasir Panjang Road
#01-01 Citilink Warehouse Complex
Singapore 118529
Tel: (65) 6375-8560
Fax: (65) 6273-3021
Email: fcal@fcal.fujitsu.com
Web: <http://www.fujitsu.com/sg/services/micro/components/>

©2006 Fujitsu Components America, Inc. All rights reserved. All trademarks or registered trademarks are the property of their respective owners.

Fujitsu Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice.
Rev. May16/2006