DMC9000: the controller in PenMount 9084 control board

DMC9000 touch screen controller is the best performance touch screen controller. It is designed to have PnP features to meet the new systems trend. It is also a very good performance of RS-232 interface on the touch screen. DMC9000 is designed for those who may like an all-in-one solution with A/D converter built-in to make the total printed circuit board denser. Beside these individual controllers, for larger screen area compensation, it is sometimes necessary to use an 8-wire touch screen instead of 4-wire. The PenMount DMC9000 controllers in this case work properly for both 4-wire and 8-wire touch screen in a way that is totally transparent to the user.

DMC9000 Features

- Package : 28-pin PDIP or 32-pin TQFP
- Process : Low-power, High-speed CMOS
- Nature : 8-bit RISC microprocessor with built-in functions including : 10-bit ADC, UART, Timer, Counter, Comparator, watchdog, memory, etc.
- Voltage Range : +4.0V to +6.0V
- Power Consumption : (at 4 MHz, 3V)
  Active: 3.4 mA / Idle Mode: 1.4 mA / Power Down Mode: 1 µA
- Voltage on any Pin except RESET with respect to Ground : -1.0V to Vcc+0.5V
- Voltage on RESET with respect to Ground : -1.0V to +13.0V
- DC Current per I/O Pin : 40.0 mA
- DC Current Vcc and GND Pins : 300.0 mA
- PnP designed firmware
- Operating Temperature : 0° C to +70° C
- Storage Temperature : -65° C to +150° C

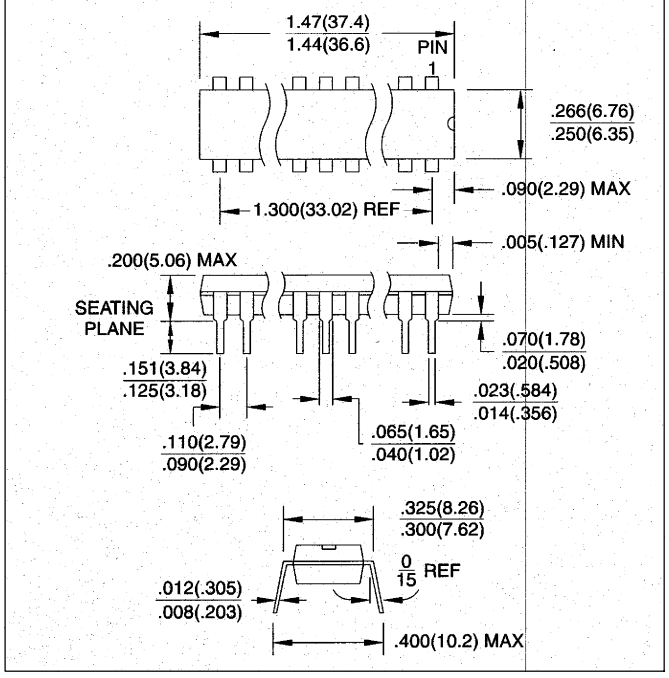
Please refer to the data sheet describing AT90S4433 from ATMEL Corporation for more detail.

Driver Software

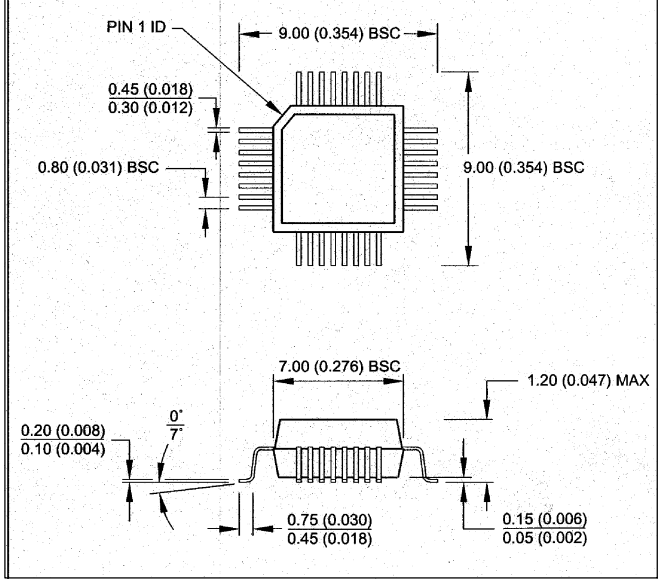
MS-DOS, Windows 3.1, Windows 9x/Me, Windows NT, Windows 2000/XP, Windows CE(for both X86 and SA CPU) and Linux

Packaging Information

28P3, 28-lead, 0.300" Wide,
Plastic Dual Inline Package (PDIP)
Dimensions in Inches and (Millimeters)



32A, 32-lead, Thin (1.0 mm) Plastic Gull Wing Quad Flat Package (TQFP)
Dimensions in Millimeters and (Inches)



1070.0029	PenMount DMC9000 CHIP in TQFP-32pin, RS232
1070.0030	PenMount DMC9000 CHIP in PDIP-28pin, RS-232

				2002	Datum	Name	Bezeichnung: Controller IC
				Erst.	12.11.	Hirt	
				Gepr.	12.11.	Maurer	Typenbez.: DMC9000: RS 232 interface
				Norm			
				Maße ohne Toleranzangabe bis 300 = ± 0.2 über 300 = ± 0.3	Maßstab 1 : 1	Werkstoff: siehe Stüli.	Oberfläche; WZ.-Nr. _; Baugr. _
a	------	06.02.03	Hi/Hi	SCHURTER D-79346 Endingen			1070.0029/.0030 a
Zust.	Änderung	Datum	Name				Blatt . . .von . . . Blatt; Index

Verteiler nach 150.9201

Es gilt Urheberschutz nach DIN 34