

IC000028

XCD Component

Application Recommendations

- Auto Focus/Zoom Modules
- Shutter & Aperture Control
- Filter Changers
- Pan and Tilt Modules
- OEM Stages



ORDERING INFORMATION

Part Number: IC000028
NM XCD BLANK

Part Number: XCD-XX-01
XCD SW/VER:1.1.0.4

RELATED PRODUCTS/ ACCESSORIES

All Nanomotion motors
EDGE motor
ER-15-4 motor
HR Motors

Product Description

Nanomotion's XCD drive & control is a miniature closed loop servo control with the smallest hardware for operating piezo ceramic servo motors. The XCD provides complete servo control for Security market applications with a built in motor driver.

The XCD component is provided on a chip level and can be integrated into user electronics with the addition of a motor power stage. The component level product will accept single ended or differential encoder input (motor size dependent) and is programmed via an IIC interface and our NanoCommander user software.

TECHNICAL SPECIFICATIONS

Mechanical:

Dimensions: 12mm x 12mm
height : 1.2 mm

Functional:

Motors supported:

All Nanomotion motors

Drive mode : AB5 , AB1

Support AQB sensor

(Single ended 5V/3.3V)

Communication: IIC, SPI (slave,
master), Uart (LVTTTL).

Limit switch: left limit, right limit

Emergency (optional)

2 x input TTL (5v/3.3v)

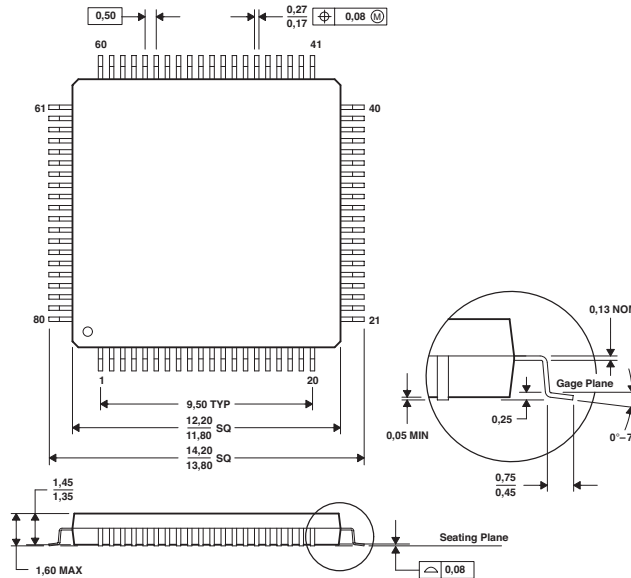
2 x Input/Output LVTTTL (3.3v)

3 x Analog input: NTC, Joystick,
Potentiometer

(Vin range: 0V to 3.3V)

2 x Analog out (pwm)

MECHANICAL DRAWINGS AND INTERFACE



ELECTRICAL

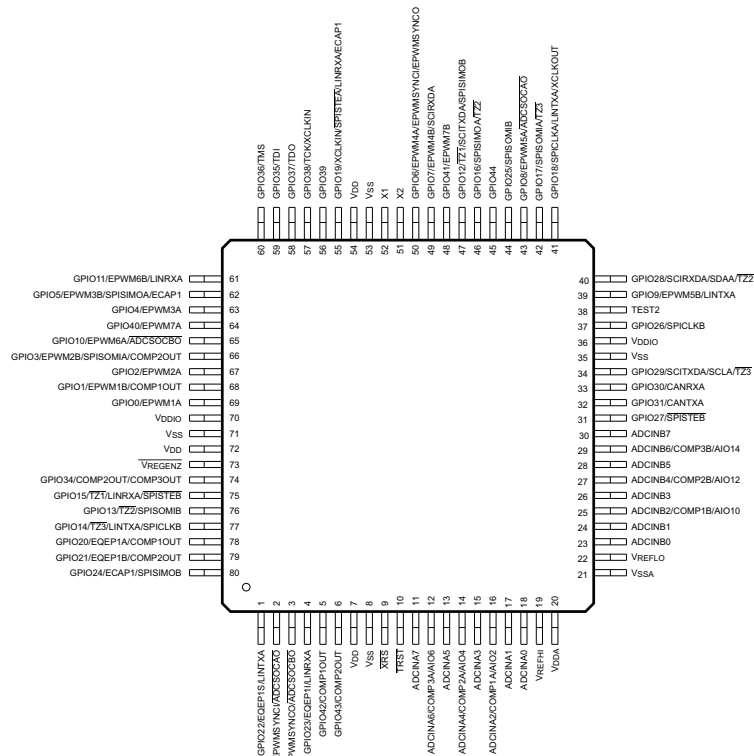
Main power: 5V

ENVIRONMENTAL

Operating Temperature :

-40°C– 85°C

ELECTRICAL INTERFACE



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