

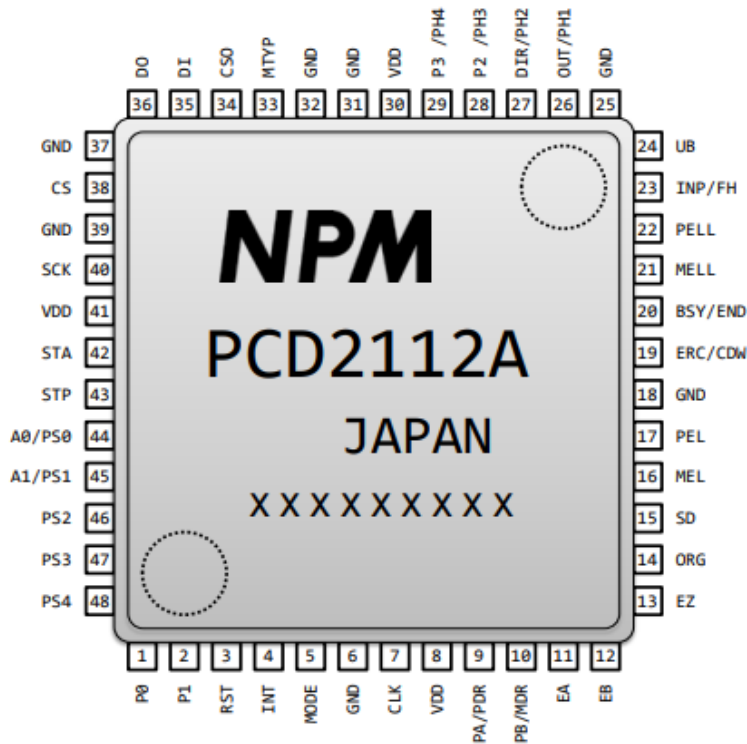
Nippon Pulse's PCD2112A controller chip has an ultra-compact package that uses the industry's first 4-wire serial bus, allowing for a smaller board size. It can also output excitation sequences for 2-phase stepping motors and has a built-in servo interface as well.



Specifications	PCD2112A
Number of axes	1
Max. Output Frequency	2.4Mpps (Max. 5 Mpps)
CPU Interface	SPI (Serial Peripheral Interface)
Package Type	48-pin QFP
Power Supply Voltage	+3.0V~ +3.6V
Standard Reference Clock (Max.)	9.8304 (20MHz max.)
No. Speed Setting Registers	3 (FL, FH1, FH2)
Speed Setting Step Range	1 ~ 8,191 (13 bit)
Speed Multiplication Rate Range	0.5 ~ 300x
Acceleration Rate Setting Range	1 ~ 65,535 (16 bit)

Specifications	PCD2112A
Deceleration Rate Setting Range	1 ~ 65,535 (16 bit)
No. of Positioning Pulse Setting Range	0 ~ 268,435,455 (28 bit)
Slow-down Point Setting Range	0 ~ 16,777,215 (24 bit)
External Dimensions (Mold Part)	7.0 × 7.0mm
Ambient Temp. Range (C)	-40 ~ +85
S-Curve	Yes
Encoder Input	A, B Phase
Linear Interpolation	None
Continuous Interpolation	None
RoHS2 Compliant	Yes

### System Drawing



Note: No. 1 pin is located at the bottom left with the type name making "1".