



The PCS1110 is a programmable pulse generator designed to replace a mechanical cam. The first of its kind, the PCS1110 chip controls a secondary axis, moving to the target position in direct relation with the main axis, just as a mechanical cam would perform.

Unlike a mechanical cam, which can only perform 'fixed' movements, the PCS111 allows the designer to modify the cam profile throughout the motion. Internal RAM permits the operational pattern of the secondary axis to be programmed with up to 128 different points.

Also possible is the utilization of more than one PCS1110 chip which allows for multiple independent electronic 'slave' cam control off of one 'master' motion profile, an impossibility with a mechanical cam.



Specifications

Specification	
No. of controlled axes	1
System Clock	20MHz
Master Axis Speed	Up to 1Mpps
Operating Temp.	-40~+85°C
Power Voltage	3.3V±10%
Storage Temp.	-65~+150°C
Package	80-pin, TQFP
Winding Resistance	2.8
Winding Inductance	1
Operating Temp.	-10~+50
Insulation Class	B
Insulation Resistance	100
Dielectric Strength	500V (1 min.)
I/O Terminals	8 general purpose
RAM-stored positions	128
Dimensions	12mm x 12mm
Weight	125