



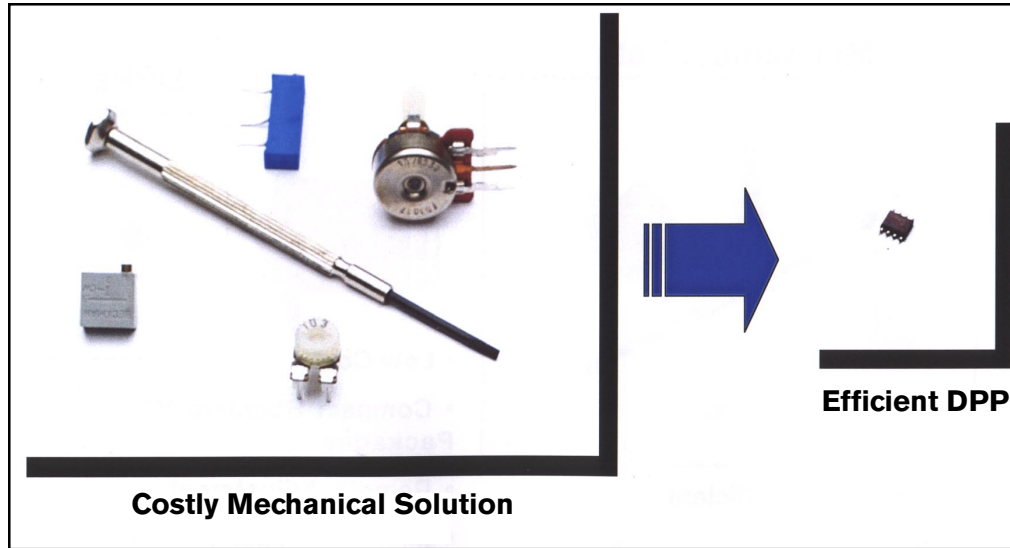
CATALYST

Digitally Programmable Potentiometers (DPP™)

Applications

- Automated product calibration
- Remote control adjustment of equipment
- Instrumentation: offset, gain and zero adjustments in self-calibrating and adaptive control systems
- Hazardous environment system adjustments
- Vibration proof systems
- Programmable power supplies
- Laser diode trimming
- Motor controls
- Programmable test equipment
- LCD contrast and brightness controls
- Programmable analog functions
- Sensors/Transducers

DPPs™ Replace Mechanical Pots



DPP™ Advantages

- Easy, Fast Adjustment
 - With digital control, NO screwdrivers!
 - During assembly
 - For field maintenance and calibration
 - Without “opening” the box or access holes
- In-System Calibration
 - No access holes needed
 - Maintain EMI specs
- Non-volatile Wiper Position
- Multiple POTs per IC Package
 - Small PCB footprint

DPP™ Selection Guide

DPP	Type	Taps	Resistance Options (kΩ)	Buffered Wiper	Independent Reference Input	Digital Interface	Supply Type	Supply Range (V)	Package
CAT5111	Single	100	10, 100	YES	NA	Increment	Single	2.5-6.0	8-pin DIP, SOIC, MSOP, TSSOP
CAT5112	Single	32	10, 100	Yes	NA	Increment	Single	2.5-6.0	8-pin DIP, SOIC, MSOP, TSSOP
CAT5113	Single	100	10, 100	No	NA	Increment	Single	2.5-6.0	8-pin DIP, SOIC, MSOP, TSSOP
CAT5114	Single	32	10, 100	No	NA	Increment	Single	2.5-6.0	8-pin DIP, SOIC, MSOP, TSSOP
CAT521	Single	256	28	Yes	NA	3 wire	Single	2.7-5.5	14-pin DIP, SOIC
CAT522	Dual	256	28	Yes	Yes	3 wire	Single	2.7-5.5	14-pin DIP, SOIC
CAT523	Dual	256	7	Yes	No	3 wire	Single	2.7-5.5	14-pin DIP, SOIC
CAT524	Quad	256	7	Yes	No	3 wire	Single	2.7-5.5	14-pin DIP, SOIC
CAT525	Quad	256	28	Yes	Yes	3 wire	Single	2.7-5.5	20-pin DIP, SOIC

Catalyst Sales Offices



CATALYST

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Other Catalyst Semiconductor Products

Serial EEPROM Memory

- Serial
- SPI, I²C and Microwire Interfaces
 - 10MHz SPI
 - 400kHz I²C
- Compact SOIC and TSSOP package options
- Automotive temperature range
- Direct replacements for Atmel, Fairchild, Microchip, ST and Xicor

Flash Memory

- Boot Block Flash
 - 1 and 2 Mb
- Bulk Erase Flash
 - 512K, 1Mb and 2Mb
- Intel Licensed Source

Parallel EEPROM Memory

- 3.3V and 5V
- High Temperature Options
- 16/64/256/512 Kbit

Microprocessor Supervisors with Memory

- Supervisors with Watchdog and EEPROM Memory
 - Five reset threshold levels for 3/3.3/4/5V systems
 - Power ON reset and brown out protection
 - Dual polarity reset outputs
 - Compact 8-pin SOIC
- 16 Kbit EEPROM Memory
 - High speed, 400kHz I²C interface
 - 16 byte page write buffer
 - Hardware write protection
 - 10ms maximum write time