![Microchip logo]

Part Number: **TPG100002**- **Softlog ICP2-DP Production Quality In-Circuit Programmer**

Overview:

The **Softlog ICP2-DP Production Quality In-Circuit Programmer** is a cost-effective programmer that operates with a PC or as a standalone unit.

Features:

- **Fast programming** of Microchip® 8-bit PIC® MCUs and serial EEPROMs
- Secure programming feature dramatically reduces the risk of unauthorized reconstruction of hex files
- Administrative user can limit how many times a hex file can be programmed
- Windows® DLL functions and command line interface for automatic programming
- Supports **4 serialization schemes**: sequential, random, pseudo-random, and user file (1 to 8 bytes)
- 250mA Vdd drive current (40mA if powered from USB only)
- Tests Vdd and Vpp for overload with indication by software
- Wired standalone programming via 3 lines (Enter/ Pass/ Fail)
- Programmable Vdd source (ICP2 or target)
- Programmable Vdd (2.0 to 5.5V)
- Programmable Vpp (2.0 to 13.5V)
- Programmable delay between Vdd and Vpp (0.1 to 250ms)
- **Programmable clock/data speed** (500KHz to 2.5MHz)
- 1 MByte of on-board flash memory
- Fully integrated into MPLAB IDE® via plug-in

Softlog Production Quality In-Circuit Programmers

Softlog production quality programmers can program up to 64 target boards simultaneously, and offer advanced features such as Secure Programming, DLL support, and High Current drive.

- **Cost-effective** programmers for high volume production, service, and development
- **Over-current protection** circuits protect both programmed devices and the programmer
- Once all necessary parameters have been set up, quickly and securely duplicate devices in production *one-touch* programming mode
- Operate programmers in *stand-alone* mode with no PC attached
- **DLL functions** are suitable for high volume automatic programming (optional)
- **Secure Programming** features strong encryption, and can limit the number of devices programmed (optional)
- **Built-in Bootloader** allows convenient field firmware upgrades via software
- Connects to PC with USB or RS-232 interface (ICP2PORT is USB-only)
- Compatible with Windows® 95/ 98/ 2000/ ME/ XP/ NT/Vista/7

Several Models Available

Several models of Softlog programmers are available. All models program 8-bit devices, including PIC12C, PIC16C, PIC10F, PIC12F, PIC16(L)F, PIC18F, PIC18F(J), and PIC18F(K). The following options are available:

- Option **D – DLL**/**Command Line Support** for control by external programs or batch files
- Option **P – dsPIC**/**PIC24 Device Support**
- Option **S – Security Support** for strong encryption and to limit the number of devices programmed
- Option **K – Keeloq Support**
- Option **X – PIC32 Support**