

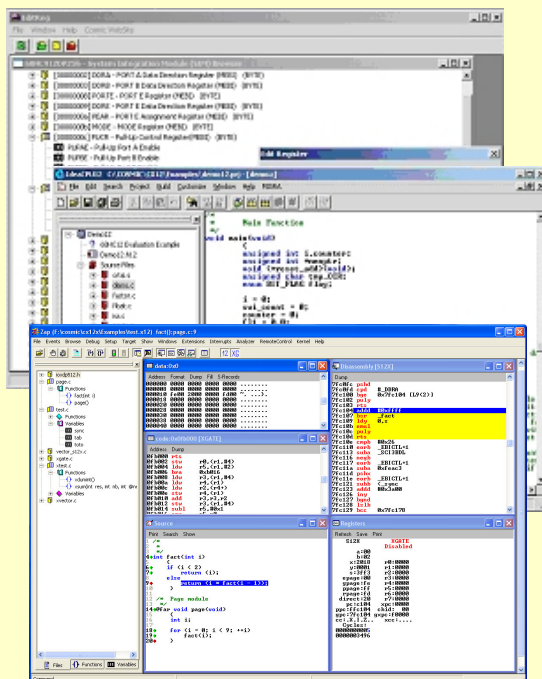


# Cosmic Software S12X - XGATE Development Tools



## Cosmic Development Tools for Freescale's S12X and XGATE

- ANSI/ISO C Compiler, IDE, BDM Debugger and simulator
- Integration of S12X and XGATE at C level.
- Includes HC12/S12 support
- Supports ELF/DWARF and IEEE-695 Debug formats



### S12X Support

- Full support of **new instructions set**.
- Specific support for **GLDD** and **GST** type Instructions (Cosmic **@gpage** extensions).
- Support and automatic handling of RPAGE, EPAGE and PPAGE registers (Cosmic **@far** extension)

### XGATE Support

- Dedicated Compiler backend for XGATE instructions.
- Full C implementation.
- Co-Compilation with XGATE Compiler add-on to S12X compiler.
- C level **synchronization** of S12X and XGATE code
- C runtime header handles both S12X, XGATE and common Code/Data initialization.

### Debugging Support

Cosmic development tools are compatible with Cosmic's own ZAP debuggers as well as most third party development tools and hardware. ZAP provides one integrated debugging environment for both S12X and XGATE processors. ZAP is currently available for use with S12X on-chip BDM (ZAP BDM) and integrated with a processor simulator (ZAP SIM).

### ZAP BDM Features

- Integration with P&E Microcomputer Systems USB and LPT BDM Multilink cable.
- FLASH and EEPROM programming
- C and/or Assembly level debugging in real-time with interrupts
- Provides integrated displays and execution controls for both S12X and XGATE processors

# Cosmic Software Development Tools for Freescale HC12/HCS12/S12X/XGATE

## About Cosmic

Cosmic products are used extensively in automotive, communication, aerospace, consumer electronics, office automation and medical instrumentation applications. Applications include electronic systems in automobile transmissions, anti-lock brakes, air bag controllers, washing machines, microwaves, pacemakers, mobile phones, fiber optic switches, heavy construction equipment, avionics, robotics and many more.

Cosmic Software's products are supplied and supported through direct sales offices in the United States, France, Germany and United Kingdom as well as a comprehensive network of distributors.

Cosmic Software is committed to giving its customers the best available software tools and support services to help them complete their projects on time, under budget and with greater innovations. Cosmic has been helping companies stay ahead of their competition since 1983.



*Supporting Embedded Innovation  
Since 1983*

## For Sales Information please contact:



### **Cosmic Software, Inc.**

400 West Cummings Park, Suite 6000  
Woburn, MA 01801-6512 USA  
Phone: +1 781 932 2556 Fax: +1 781 932 2557  
Email: [sales@cosmic-us.com](mailto:sales@cosmic-us.com)  
web: [www.cosmic-software.com](http://www.cosmic-software.com)



### **Cosmic Software France**

33 Rue Le Corbusier, Europarc Creteil  
94035 Creteil Cedex France  
Phone: + 33 1 43 99 53 90 Fax: + 33 1 43 99 14 83  
Email: <mailto:sales@cosmic.fr>  
web: [www.cosmic.fr](http://www.cosmic.fr)



### **Cosmic Software UK**

Oakwood House  
Wield Road, Medstead  
Alton, Hampshire  
GU34 5NJ, U.K.  
Phone: +44 1420 563 498 Fax: +44 1420 561 946  
Email: [sales@cosmic.co.uk](mailto:sales@cosmic.co.uk)



### **Cosmic Software GmbH**

Rohrackerstr 68 D-70329 Stuttgart Germany  
Tel.+ 49 711 420 4062 Fax + 49 711 420 4068  
Email: [sales@cosmic-software.de](mailto:sales@cosmic-software.de)  
web: [www.cosmic-software.de](http://www.cosmic-software.de)

