

Digi ESP™

Integrated Development Environment for Digi Product Solutions

Overview

Digi ESP is an easy-to-use and powerful Integrated Development Environment (IDE) optimized for professional software development on a wide range of Digi product platforms.

Combining the complete integration of Digi hardware, software and services, Digi ESP streamlines the overall application design process, whether you are developing embedded software for Digi Embedded Linux and NET+OS®, or customizing application-specific functionality using the built-in Python scripting and iDigi® Dia capabilities of Digi products.

About Digi ESP

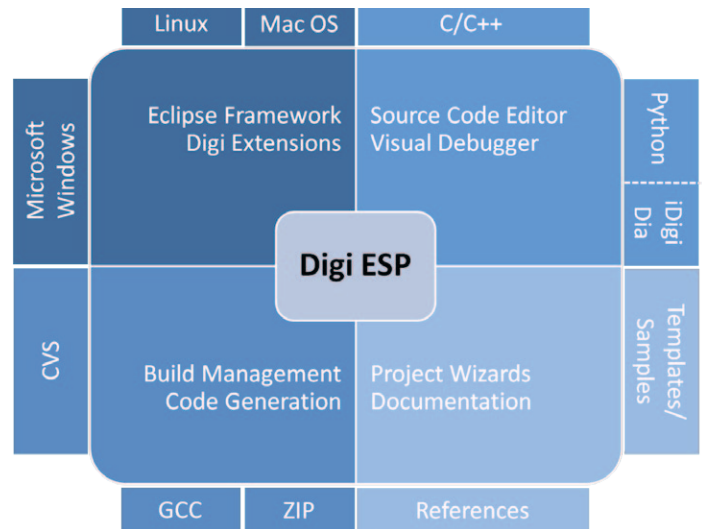
Built on the open Eclipse™ framework, Digi ESP offers an intelligent source code editor, compiler/code generation, visual source code debugging, hardware and software debug support, build management, CVS version control, and code deployment tools for local and remote targets.

Features like the intelligent editor coding aids for C/C++ and Python/iDigi Dia with syntax highlighting, auto-indent, code completion assistance, context-sensitive API help, and on-the-fly template insertion make software development easier and faster than ever before.

A complete set of Digi-specific extensions tailored to NET+OS, Digi Embedded Linux, and Python/iDigi Dia development ensures an unparalleled development experience with completely seamless Digi product integration.

Digi ESP is available for the following development platforms:

- **Digi ESP for NET+OS:**
Embedded C/C++ application development on Microsoft Windows systems for Digi products running NET+OS
- **Digi ESP for Digi Embedded Linux:**
Embedded C/C++ application development on Linux systems for Digi products running Digi Embedded Linux
- **Digi ESP for Python:**
Python/iDigi Dia development on Microsoft Windows and Mac OS X systems for Digi products with Python support



Features/Benefits

Complete IDE with full integration of Digi software, hardware and services

Built on open Eclipse framework

Integrated reference information, tutorials and user documentation

Included in all embedded Digi JumpStart Kits® and available for download for other Digi products

- Simplified and highly accelerated development and deployment
- Feature-rich and future-proof; common look-and-feel minimizes effort required to learn new development tools
- Easy and direct access to information saves time and effort
- No need to assemble and integrate development environment — application development can begin immediately right out of the box



www.digiembedded.com



General

- Based on open Eclipse framework
- Online updates through integrated Digi Package Manager¹
 - Documentation
 - Software updates
- Digi-specific help, documentation, and interactive tutorials
- General iDigi® support
 - iDigi platform account creation
 - Device discovery and registrationPlease visit www.idigi.com for detailed information about the iDigi M2M platform.

Digi ESP for Digi Embedded Linux

- Source code editor
 - C/C++ source code editor
 - Color-coded syntax highlighting
 - Intelligent code assist
 - Auto-indent and bracket-match
 - Proactive code completion assistance
 - On-the-fly code template insertion
 - Context-sensitive API help (hover assist and full help)
 - C/C++ search (constructs, declarations, definitions, references, etc.)
- Compiler
 - GNU C/C++ integration (GCC)
- Debugging
 - Visual source code debugger
 - One-click debug launch
 - Breakpoints and watchpoints
 - Data inspection/modification
 - Memory, registers, variables and signals
 - Disassembler mixed code view
 - Kernel debugging capabilities
- Project and build management
 - Linux Project Wizards
 - Integrated project file navigator
 - Managed and standard make files
 - CVS version control system support
- Nokia Qt Designer plug-in
 - Qt Development Perspective
 - Graphical editor for resource files (.qrc), project files (.pro), and applications (.ui)
 - Drag-and-drop widget box view
 - Qt Property Editor
 - Auto-generated Qt makefiles for Qt apps
 - Remote launch of Qt applications
 - Qt application samples
- Target monitor extension
 - File system view, flash update, remote console
- Terminal view
 - Serial, telnet, SSH
- Bootable Linux system DVD w/Digi ESP ("LiveDVD")
- Included in all Digi JumpStart Kits for Digi Embedded Linux

¹ Internet connection required

Digi ESP for NET+OS

- Source code editor
 - C/C++ source code editor
 - Color-coded syntax highlighting
 - Intelligent code assist
 - Auto-indent and bracket-match
 - Proactive code completion assistance
 - On-the-fly code template insertion
 - Context-sensitive API help (hover assist and full help)
 - C/C++ search (constructs, declarations, definitions, references, etc.)
- Compiler
 - GNU C/C++ integration (GCC)
- Debugging
 - Visual source code debugger
 - One-click debug launch
 - Breakpoints and watchpoints
 - Data inspection/modification
 - Memory, registers, variables and signals
 - Disassembler mixed code view
- Project and build management
 - NET+OS project wizards
 - Integrated project file navigator
 - Managed and standard make files
 - CVS version control system support
- Supported debuggers
 - Digi JTAG Link, EPI MAJIC, software (gdbserver)
- Project builder for ready-to-use application templates
 - CPU load monitor, web server (w/configuration pages), secure web server, FTP server/client, Telnet/serial CLI, SSL, SMTP, SMTP
- NET+OS tools and utilities
 - NET+OS Flash programmer
 - NET+OS MIB compiler
 - NET+OS builder integration
- Terminal view
 - Serial, telnet, SSH
- Included in all Digi JumpStart Kits for NET+OS

Digi ESP for Python

- Source code editor
 - Python source code editor
 - Color-coded syntax highlighting
 - Intelligent code assist
 - Auto-indent and bracket-match
 - Proactive code completion assistance
 - On-the-fly code template insertion
 - Context-sensitive API help (hover assist and full help)
- Visual smart editor for iDigi Dia
 - Source code editor with color-coded syntax highlighting, syntax error checking and auto-indent
 - iDigi Dia element definition
 - Devices, loggers, presentations and services
 - iDigi Dia element configuration
 - Error detection (patterns, ranges, etc.)
- Debugging
 - Visual source code debugger
 - One-click debug launch
 - Conditional breakpoints
 - Data inspection/modification
 - Variables, expressions, etc.
 - Multi-threading debug
 - Remote debugging (device)

- Python interpreter
 - Python 2.4 and 2.6 support
- Project and build management
 - Python and iDigi Dia project wizards
 - Integrated project file navigator
 - Project build and rebuild
 - CVS version control system support
- Project package export
 - Packaging (ZIP) for Python app deployment
- iDigi Dia channel explorer
 - Local and remote
- Remote device services
 - Device application launch
 - Device file explorer
 - Device reboot
- Terminal view
 - Serial, telnet, SSH
- Included in Digi JumpStart Kits for iDigi and available for download at www.digi.com/esp

Supported Digi Products

- Digi ESP for NET+OS
 - Digi Connect® ME / Wi-ME
 - Digi Connect ME® 9210
 - Digi Connect® EM / Wi-EM
 - ConnectCore™ 9P / Wi-9P 9215
 - ConnectCore™ 9P 9360
 - ConnectCore™ 3G
- Digi ESP for Digi Embedded Linux
 - Digi Connect ME® 9210
 - ConnectCore™ 9P / Wi-9P 9215
 - ConnectCore™ 9P 9360
 - ConnectCore™ 9M / Wi-9M 2443
 - ConnectCore™ i.MX51 / Wi-i.MX51
- Digi ESP for Python
 - ConnectCore™ 3G
 - ConnectCore™ Wi-9P 9215
 - ConnectPort™ X2 / X3 / X4 / X5 / X8

Operating Systems

- Digi ESP for NET+OS
 - Microsoft Windows XP
 - Microsoft Windows Vista
 - Microsoft Windows 7
- Digi ESP for Digi Embedded Linux
 - Linux (included on DVD)
- Digi ESP for Python
 - Microsoft Windows XP
 - Microsoft Windows Vista
 - Microsoft Windows 7
 - Mac OS 10.6 (or greater)

Microsoft Windows support is currently provided for 32-bit platforms only.

