



# qCF for Linux

## communication tools for ARTIC cards.

Quadron's qCF for Linux helps you structure an exact solution for your communications situation. You can use our qCF to run async, bisync, HDLC or custom variations on a smart PCI-bus ARTIC card. You'll save your CPU from protocol processing overhead and maintain in-house security while you support legacy systems or proprietary protocols.

Our qCF consists of a C-language software development toolkit and a runtime support package for dedicated ARTIC communication cards. It supports multiple tasks running on the ARTIC as well as Linux server programs that interact with the ARTIC card.

- Supports Linux open source operating system.
- Write tasks using qCF for either the ARTIC card or the Linux server.
- Craft multi-tasking, interrupt-driven applications with tasks interconnected by simple yet powerful qCF Input/Output streams.
- Program using industry-standard C compilers.
- ARTIC tasks can access standard C library functions.
- Use multiple ARTIC cards on one Linux server
- High-level, task-to-task, server-to-ARTIC queued message interface is based on simple read/write calls.
- Includes flexible & configurable I/O drivers for HDLC/SDLC, Bisync & Async.
- I/O drivers are interrupt driven & fully buffered.
- Realtime analysis tool for debugging & gathering performance data.
- Statistics gathering facility for error detection & correction.

### Who should use qCF for Linux?

Quadron's qCF for Linux is the ideal application development vehicle for OEMs, system houses and end users. It frees designers from low-level ARTIC internals, while at the same time it doesn't limit their range of options and possibilities.

### Put smart cards to work

Quadron's qCF for Linux, when combined with smart ARTIC cards, represents an advance in Linux server multi-tasking capabilities. Together they free your applications from the demands of complex communications protocols. The I/O-intensive and time-dependent portions of applications can be off-loaded to a dedicated ARTIC communications card.

qCF for Linux enhances ARTIC by providing a unified application development interface, making it easy to take advantage of multiple, concurrently operating, general purpose processors.

### Write standard C

qCF for Linux provides the bridge that allows you to write with standard C compilers, use standard C library functions, and run directly on your ARTIC card. You'll have all the necessary elements for high-level inter-task communication, memory management, task management, and I/O support.

# qCF *for* Linux

- Open architecture** The open architecture of qCF for Linux allows your application programs to access the range of Linux server and concurrent ARTIC processor resources.
- Shorten your development time** The qCF for Linux environment lets you code and debug ARTIC applications with the same types of tools that you have for Linux server applications. For example, you can view real-time ARTIC task activity in one window, and simultaneously edit, compile, or load other tasks in another window.
- Diagnostic tools** Quadron's qCF for Linux comes with diagnostic tools that not only examine all ARTIC tasks, but also display CPU availability, free memory, and communication statistics for each port.
- Technical support** Quadron provides a high level of service and support. Whenever it's needed, free telephone, email and fax technical support as well as upgrades are available during the warranty period.
- Custom programming** Quadron engineers are available for custom programming and other support services. Contact us for information.
- Software requirements** To develop, test, and run qCF for Linux, you will need: our qCF for Linux software, a Linux workstation or server, and Microsoft's Visual C++ version 1.52 or Microsoft's C 6.0 (for the ARTIC).
- How to order qCF for Linux** Order the qCF for Linux as follows:  
# 5400 qCF for Linux Developer's Toolkit & Runtime Support
- How to order ARTIC hardware** Choose one of three PCI-bus ARTIC cards available for qCF for Linux:  
# 1203 ARTIC186 8-Port PCI Adapter  
# 6650 ARTIC186 Model II ISA/PCI Adapter  
# 6880 ARTIC X.25 ISA/PCI Adapter
- Depending on the ARTIC card, different interfaces are available: RS232, RS422, X.21, X.21 bis/V.24, and V.35. Quadron maintains a stock of ARTIC components for sale and immediate delivery. Our technical sales people can help you select what best suits your particular application.
- Contact us for more information** Communications has been Quadron's only business since we founded it in 1986. Since then, we've been assisting people with stock and custom software, training, and the finest ARTIC development tools. Fax, email, telephone, or write to us any time. And be sure to visit our Web site at [www.quadron.com](http://www.quadron.com).

QUADRON



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