

# ZeroMQ Distributed Messaging

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**Source:** [ØMQ - The Guide](#)

Table 1: Data Sheet for ZeroMQ (ØMQ).

| Characteristic     | Value                                                                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original author(s) | Pieter Hintjens                                                                                                                                                                    |
| Developer(s)       | iMatrix                                                                                                                                                                            |
| Initial release    | 2010                                                                                                                                                                               |
| Stable release     | 4.3.1                                                                                                                                                                              |
| API Documentation  | <a href="http://api.zeromq.org/4-3:_start">http://api.zeromq.org/4-3:_start</a>                                                                                                    |
| Repository         | <a href="http://zeromq.org/intro:get-the-software">http://zeromq.org/intro:get-the-software</a> or <a href="https://github.com/zeromq/libzmq">https://github.com/zeromq/libzmq</a> |
| Written in         | Mainly in C, but also in PHP, Java, Python, Lua, and Haxe                                                                                                                          |
| Example Languages  | C++, C#, CL, Delphi, Erlang, F#, Felix, Haskell, Objective-C, Ruby, Ada, Basic, Clojure, Go, Haxe, Node.js, ooc, Perl, and Scala                                                   |
| Operating system   | runs on most operating systems                                                                                                                                                     |
| Guide              | <a href="http://zguide.zeromq.org/page:all">http://zguide.zeromq.org/page:all</a>                                                                                                  |
| Available in       | English and 27 languages other language                                                                                                                                            |
| Type               | Messaging Service                                                                                                                                                                  |
| License            | LGHPLv3                                                                                                                                                                            |
| Website            | <a href="http://zeromq.org/">http://zeromq.org/</a>                                                                                                                                |

## Abstract

*ZeroMQ (also known as ØMQ, 0MQ, or zmq) looks like an embeddable networking library but acts like a concurrency framework. It gives you sockets that carry atomic messages across various transports like in-process, inter-process, TCP, and multicast. You can connect sockets N-to-N with patterns like fan-out, pub-sub, task distribution, and request-reply. It's fast enough to be the fabric for clustered products. Its asynchronous I/O model gives you scalable multicore applications, built as asynchronous message-processing tasks. It has a score of language APIs and runs on most operating systems. ZeroMQ is from iMatix and is LGPLv3 open source.*

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