Raveon’s *FireLine™* Competitive Features

Raveon’s *FireLine* wireless modem is a sophisticated radio modem incorporating a wealth of features that make it not only one of the most advanced radio modems available, but also one of the easiest to use.

Although it features plug-and-play operation, working straight out of the box as a point-to-point or point-to-multipoint radio modem, the user may configure it for more advanced network topologies, repeating, and diagnostic abilities.

This paper summarized its advanced features, and their benefits to the user. No radio modem on the market has all of these features, and because the *FireLine* is built with a highly integrated modern 32-bit processor, it does all this at a price similar to old analog radio modems.

*FireLine™* Features

**Business benefits**

- **One design, many bands** The *FireLine* is available in a variety of frequency bands. Even though they operate on different frequencies or with different channel spacing, their user interface is identical. Once you learn how to program and manage one type of FireLine, they all work the same.

- **Lowest Cost** The *FireLine* radio modem is small and highly integrated, making it the most economical modem on the market. With its very-low power consumption, it reduces system power supply expenses. With its remote-diagnostic capabilities, it reduces installation time and maintenance costs by eliminating the need for on-site tests.

- **2-Year Warranty** Raveon’s FireLine radio modems are backed by a 2-year warranty.

**System Benefits**

- **Long-Range** Raveon’s modems have outstanding receiver sensitivity, and with their programmable data rates, the user may select long-range and slower data or faster-data at reduced sensitivity.

- **Dual-Mode** The *FireLine* radio modem operates in EITHER Streaming or Packetized modes. In *Streaming Mode*, data is transmitted in real-time as it enters the modem, and is output from the receiver the moment it is received. In *Packetized Mode*, data is collected into packets, sent in bursts, and includes error-checking, error-correction, and network addressing overhead to ensure reliable data with no errors, and no dribble bits.
**Integrated Repeater in Every Unit**  All *FireLine* modems have integrated store-and-forward repeater capabilities in them. When used in Packetized mode, and FireLine may operate as a regular radio modem, AND as a store-and-forward repeater. Similar to IP networks, the repeater function uses the network address and an “address mask” to determine if a particular reception should be repeated.

**16-bit Modem Addresses**  The *FireLines* in a system may be configured with a 16-bit address and network mask. This allows sub-groups of radios to communicate on the same radio channel, and not have their data interfere with modems that are not in their group. Also, many point-to-point systems may share one radio channel, or a point-to-multipoint may be set-up so that the multi-point modems do not hear each other’s data. *FireLine’s* addressing is the most flexible radio modem addressing scheme available, and if it is not needed, is simple to turn off.

**Reliable Data**  Raveon’s *FireLine* incorporates 16-bit CRCs, and reverse error correction, so that all data that comes out of a *FireLine* is 100% perfect. – No bit errors. – No “dribble-bits” after a reception. – No noise data. This gives the radio modem a “Transparent” look to the network. Most applications simply work over a *FireLine* link, just as they would a hard-wired link.

**Common Port**  Similar to all telco/Hayes type modems with the AT command set, the *FireLine* uses a common serial port for operation, configuration, and diagnostics. The user needs only one data channel to use and manage the modem. Simple “AT” commands are used to configure the modem, and to perform diagnostics.

**Remote Ping**  The *FireLine* supports a variety of remote diagnostics, including a remote “Ping” command. Invaluable when configuring the system, the operator may query any FireLine in the system, and receive a report of it’s signal strength.

**Auto-Status Reporting**  A *FireLine* may be configured to automatically and periodically report its status over-the-air. A network monitor may be used to collect this data and ensure that all modems are operating properly.

**For More Information Contact:**

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