

# Nucleus RMON

## Remote Network Monitoring

### Description:

Nucleus RMON supports all nine groups of the RMON MIB (RFC 1757). It has been designed to work well in embedded environments where processor and memory limitations are too severe for other RMON offerings. Nucleus RMON has a distributed architecture which permits the front-end parsing and background collection activities of RMON to run as separate tasks, if desired.

Nucleus RMON conforms to those devices which collect statistics in hardware, but does not require hardware support. Nucleus RMON provides support for multiple MAC interfaces and simultaneous RMON group support for each interface.

Nucleus RMON provides a irRovinglo RMON capability. Roving RMON simply means that for limited environments where all groups cannot be supported on all interfaces simultaneously, the user may choose which groups are activated, based on certain automatic threshold criteria or at user selection. Nucleus RMON is flexible and manageable, enabling new implementations to proceed rapidly. Nucleus RMON is a fraction of the cost of other ithigh profilell RMON implementations and yet provides a complete RMON solution.

### RMON Summary

The Remote Network Monitoring Management Information Base (RMON MIB) provides a comprehensive network management framework to achieve network fault diagnosis, trend analysis, planning and performance tuning. RMON uses the SNMP protocol, ASN.1 encoding, and standard MIB principles to provide interoperability between monitoring products and management stations, allowing users to mix and match network monitors and management stations from different vendors. RMON is a stable, mature standard which is migrating from system level to embedded environments.

A typical implementation of Nucleus RMON requires a maximum of 67Kbytes of code space. Exact size depends on the specific user environment and processor choice. Example port code is included with the source. All products have been developed using RFC standards. All products have a complete set of documentation and installation guides. Technical support, via telephone and email, and maintenance options are available.

### Features:

- Support for all nine groups of RMON MIB (RFC 1757)
- Small in size, approximately 40Kbytes (MIPS RISC)
- Self contained, minimal system requirements
- Optimized internal memory management
- Distributed architecture
- Support for multiple interfaces
- Support for ioRovinglo RMON
- Simultaneous background collectors
- Standard BSD sockets interface
- Intelligent packet queuing interface

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