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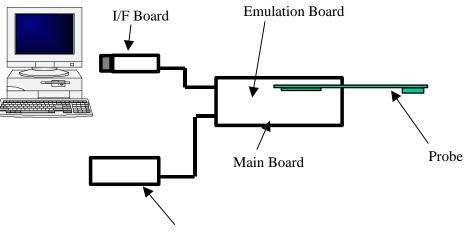
# RENESAS

## IE-78K0-NS, IE-78K0S-NS, and IE-78K4-NS In-Circuit Emulators for K0, K0S, and K4 Microcontrollers

### **Product Brief**

March 1999

| Description                 | The IE-78K0-NS, IE-78K0S-NS, and IE-78K4-NS in-<br>circuit emulators for K0, K0S, and K4 microcontrollers,<br>respectively, can be used to efficiently debug hardware<br>and software under development. The in-circuit<br>emulators incorporate functions such as break and<br>trace using hardware events. Moreover, an option<br>board that will enhance the functionality of the emulator<br>is available for the K0 family. The addition of the option<br>board allows for support of coverage, memory<br>modification during program execution, event-to-event<br>timer, sectional trace, time stamping, and other<br>functions. |
|-----------------------------|--|
| Features                    | Low voltage emulation (device-dependent)   |
|                             | Main and subclock can be changed by user   |
|                             | 64K emulation memory (1 MB for K4 family)  |
|                             | 8K trace buffer (32K for K4 family)  |
|                             | Conditional and unconditional tracing  |
|                             | Extensive event-driven breaking and tracing  |
|                             | Windows®-based debugger software   |
|                             | C source-level stepping and debugging  |
|                             | Real-time RAM monitor  |
|                             | Compact and lightweight size: 235 mm (W) x 195 mm (D) x 39 mm (H)  |
| Host Platforms<br>Supported | Windows 3.x, Windows 95, Windows 98, and Windows NT™<br>Figure 1. Basic Hardware Configuration   |
|                             | I/F Board Emulation Board  |



Power Supply



For literature, call **1-800-366-9782** 7 a.m. to 6 p.m. Pacific time or FAX your request to **1-800-729-9288** or visit our web site at **www.necel.com** 

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