

# **Application Note #178:**

## **Improved Modem Cellular Operation**

### INTRODUCTION

This application note contains various recommendations that taken either individually or collectively are known to improve cellular operation when using Cermetek CH1794, CH1798, CH1799, and CH2056 modem products.

#### SOFTWARE COMMANDS

The following software commands may be issued separately or in any combination. Note that the **AT** attention string should be included at the beginning of each command line.

The following examples illustrate separate usage of the commands.

Enter: AT\N5<CR> Selects MNP error correcting.

Response: **OK** 

Enter: AT-K1<CR> Converts V.42 LAPM to MNP10.

Response: **OK** 

Enter: AT-SEC=1, 18<CR> Enables MNP10 error correcting (not supported by CH1794).

Response: **OK** 

The following example illustrates usage of all the commands collectively.

Enter: AT\N5-K1-SEC=1,18<CR>

Response: **OK** 

### ADDITIONAL RECOMMENDATIONS

Generally, the best cellular operation is obtained when using the slowest possible data rate. The slower the better: 1200bps, 2400bps, or 9600bps are preferred. Stationary operation is better than mobile operation.

Cermetek Microelectronics, Inc.	Improved Modem Cellular Operation
Cermetek reserves the right to make changes in specifications at any time and without r Cermetek in this publication is believed to be accurate and reliable. However, Cermetek a	notice. The information furnished by assumes no responsibility for its use

or for any infringements of patents or other rights of third parties resulting from its use. No license is granted under any patents or patent rights of Cermetek.

Printed in U.S.A

406 TASMAN DRIVE | SUNNYVALE CA 94089 | LOCAL: 408-752-5000 | TOLL FREE: 1-800-882-6271 FAX: 408-752-5004 | WEB SITE: <a href="http://www.cermetek.com">http://www.cermetek.com</a> | EMAIL: <a href="mailto:sales@cermetek.com">sales@cermetek.com</a>