



CH1798 and CH1799 Products

Known Incompatibilities Between pre-1 August 2000 and post-1 August 2000 Products

APPLICATION NOTE #165

Effective 1 August 2000, all Cermetek Microelectronics CH1798 and CH1799 products will contain several updated components. These changes were necessitated by the obsolescence of a critical integrated circuit component. Although every effort was made to minimize the impact of these changes, some **AT** commands have been effected. The updated product can be recognized by its response to the AT13 command, which is V3.400-V34_2M_DLS. The old product will respond with a V2.200F9-V34_ACF_DS1 when it gets an AT13 command.

Application Note # 165 summarizes all **AT** command differences known to exist between the pre-1 August 2000 CH1798/9 products and the post-1 August 2000 CH1798/9 products.

+MS Command. The **+MS** command is used to control the modulation capabilities of the modem. The command syntax has changed. Refer to Application Note # 147, Description of New AT +MS Command Implementation for CH179X and CH2056 Products, for a detailed description of the new command syntax.

\An Commands. Used to select MNP Error Correction Block size. Command **\An** no longer supported.

Fn Commands. Used to select line modulation speed. Redundant function. Replaced by new **+MS** command. Command **Fn** no longer supported.

N0. Used to disable Automode. Redundant function. Replaced by new **+MS** command. Command **N0** no longer supported.

N1. Used to enable Automode. Redundant function. Replaced by new **+MS** command. Command **N1** will return OK result code but will have no effect on modem operation.

&K6. Enables both RTS/CTS hardware and XON/XOFF software flow control simultaneously. Duplicated by **&K3** (Enables RTS/CTS) and **&K4** (Enables XON/XOFF) commands. Command **&K6** no longer supported.

&Q4. Used in conjunction with Hayes Synchronous Interface (HIS). Provides synchronous communication with asynchronous terminals. Command **&Q4** no longer supported.

&Tn. Used to specify select test functions. The **&Tn** command options have been reduced and the diagnostic functions have been eliminated. Commands **&T2**-**&T8** are no longer supported. See the summary below.

Command	Description	Command Status
&T0	Terminates test in progress	Unchanged
&T1	Initiates analog loopback, V.54 Loop 3	Unchanged
&T2	Returns result code ERROR	No Longer Supported
&T3	Initiates local digital loopback, V.54 Loop 2	No Longer Supported
&T4	Enables digital loopback acknowledgement	No Longer Supported
&T5	Disables digital loopback acknowledgement	No Longer Supported
&T6	Requests remote digital loopback, V.54 Loop 2, without self test diagnostics.	No Longer Supported
&T7	Requests remote digital loopback, V.54 Loop 2, with self test diagnostics.	No Longer Supported
&T8	Initiates analog loopback, V.54 Loop 3, with self test diagnostics.	No Longer Supported

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