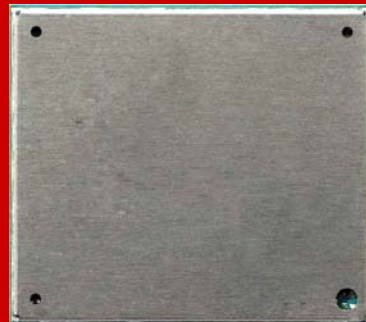




CINTERION
a Gemalto company

PHS8

Version: 02.003
DocID: PHS8_rn_v02.003a



Release Notes

Document Name: **PHS8 Release Notes**

Version: **02.003**

Date: **July 06, 2012**

DocId: **PHS8_rn_v02.003a**

Status: **Confidential / Released**

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1 Preamble

This Release Note refers to the Cinterion GSM/UMTS/HSPA+ modules

PHS8-P 02.003

PHS8-US 02.003

PHS8-USA 02.003

PHS8-E 02.003

Please note that the TTY feature is only PCTRB approved.

1.1 Related Documents

- [1] PHS8 Hardware Interface Description, v02.003a
- [2] PHS8 AT Command Specifications, v02.003a
- [3] User's Guide Getting Started with PHS8, v02
- [4] DSB75 Development Support Board Hardware Interface Description, v14
- [5] Multiplexer User's Guide for PH8/PH8-P, v02
- [6] Multiplexer Driver Developer's Guide, v16
- [7] Multiplexer Driver Installation Guide, v15
- [8] Application Note 02: Audio Interface Design for PH8/PH8-P Applications, v04
- [9] Application Note 16: Updating PH8 Firmware, v02
- [10] Application Note 26: Power Supply for Wireless Applications, v05
- [11] Application Note 37: GPS Antenna Integration, v01
- [12] Application Note 39: USB Interface Description, v02
- [13] Application Note 40: Thermal Solutions for PHS8 Applications, v01
- [14] Application Note 43: Customizing PH8 Applications, v01
- [15] Application Note 48: SMT Module Integration, v03
- [16] Application Note 57: Diversity Antenna Integration, v01

To visit the Cinterion Website you can use the following link: <http://www.cinterion.com>

2 Known Issues

Feature	Brief description
AT+CPBW	If all extended phone book locations (for entries with long numbers) are used up AT+CPBW is expected to return the result code "+CME ERROR: memory full". Yet, depending on the SIM card, it is possible that the result code "+CME ERROR: unknown" will be given instead.
"FD" phonebook	If GSM character set is enabled it is not possible to edit the "FD" phonebook with AT+CPBW. After removing an "FD" phonebook entry, the module has to be restarted before writing another phonebook entry to the same index.
Result codes for "PS" lock status	If the AT^SCFG subcommand "GPRS/AutoAttach" is enabled, and the inserted SIM/USIM is expired (and therefore rejected by the network) requesting the status of the "PS" facility with AT+CLCK="PS",2 or 3 will return the response "+CME ERROR: operation failed" instead of the responses "+CLCK: <mode>" or "+CLCK: <password>" followed by "OK".
AT+CREG	After sending the "+CREG: 3" URC (registration denied) the module issues, by mistake, an additional "+CREG: 0" URC (not registered).
AT+CHLD=1	If there is an incoming call and the module sends the AT+CHLD=1 command, the call will be answered without activating the audio path.
Ringtone for Class 0 SMS	Incoming Class 0 short messages are not indicated by ringing tones even though ringing alert for incoming SMS is enabled with AT^SRTC=2,1,1.
AT&W AT+CNMI	SMS related URC presentation configured with AT+CNMI and correctly saved with AT&W, is not correctly restored after module restart. Workaround: Upon module startup, please use AT+CNMI to again specify the SMS related URC presentation.
DSR line behavior	If AT&S1 is enabled, the DSR line will be set to "ON" state as soon as ATA or ATD is issued. However, it may take longer for the actual data call connection to be established. This event is then indicated by the URC "CONNECT <baud rate>".

Feature	Brief description
AT^SIST	<p>If the Transparent Socket client is downloading data on the Modem interface of the serial interface ASC0 (if AT^SDPORT=2) and the module toggles (via +++ or address parameter "etx") from transparent access mode to command mode the OK result code may be lost.</p>
AT^SNFS write command	<p><i>Issue applies to PHS8-P and PHS8-USA only:</i></p> <p>The AT^SNFS write command does not always update the analog audio interface with the parameters <micAmp1>, <micAmp2> and <cdcRxGain> from the new audio mode.</p> <p>Condition: The AT^SNFS write command is applied during a call or any other audio action (e.g. ring tone testing) and the new as well as the old audio mode are using the analog audio interface.</p> <p>Effect: <micAmp1>, <micAmp2> and <cdcRxGain> internally still hold the values from the previously selected audio mode.</p> <p>Workaround: The idea is: if the mentioned parameters are simply set to identical values then it never matters that AT^SNFS=... does not always update these parameters. After power-up or reset apply AT^SNFI=0,0,0 and AT^SNFO=0,0,0 to all audio modes using the analog interface, e.g.:</p> <pre> AT^SNFS=2 AT^SNFI=0,0,0 AT^SNFO=0,0,0 AT^SNFS=3 AT^SNFI=0,0,0 AT^SNFO=0,0,0 AT^SNFS=4 AT^SNFI=0,0,0 AT^SNFO=0,0,0 AT^SNFS=5 AT^SNFI=0,0,0 AT^SNFO=0,0,0 AT^SNFS=6 AT^SNFI=0,0,0 AT^SNFO=0,0,0 </pre> <p>Because AT^SNFI and AT^SNFO cannot be changed in audio mode 1 this mode should not be used anymore. Next feel free to use the module in any way, but each time before selecting another audio mode via AT^SNFS=... use AT^SNFI=0,0,0 and AT^SNFO=0,0,0 again. The workaround is needed for the analog audio interface only. Be aware that parameters of AT^SNFI and AT^SNFO are individual settings for each audio mode.</p>

Feature	Brief description
AT^SLCC, AT+CLCC	When a 2nd call is incoming while the 1st call is on hold, the “^SLCC” URC correctly indicates it as "waiting". The AT+CLCC command, on the other hand, incorrectly shows it as "incoming".