**CUSTOM GSM COMMANDS**

Based on the Cavli C10QM AT Command Manual, here are 3 custom AT command proposals suitable for CelerSMS context (assuming SMS/GSM only support) along with mock expected responses:

**1. AT+CSMSIMINFO — Check SIM-related Network and Operator Info**

**Purpose**:

Provide a quick summary of SIM state, operator name, and signal strength in a single command, especially useful in GSM SMS only modules.

**Syntax:**

|  |  |
| --- | --- |
| Custom Command | Mock Response |
| AT+CSMSIMINFO | +CSMSIMINFO: "READY","AIRTEL","405854","+CSQ: 15,0"  OK |

**Explanation**:

* "READY" → SIM is active.
* "AIRTEL" → Operator name.
* "405854" → MCC+MNC (Mobile Country Code + Mobile Network Code).
* +CSQ embedded to avoid separate signal query.

**2. AT+SMSLIMIT — Set or Query SMS Storage Limit**

**Purpose**:

Allows applications to prevent storage overload in embedded SMS applications by setting a custom maximum message threshold.

**Syntax:**

|  |  |
| --- | --- |
| Custom Command | Mock Responses |
| AT+SMSLIMIT=50 // Set maximum limit to 50 messages  AT+SMSLIMIT? // Query current limit | OK // (after setting)  +SMSLIMIT: 50  OK // (on query) |

**Manual Interpretation**:

* Helps avoid SMS inbox full errors.
* Can be polled before AT+CMGS to ensure space.

**3. AT+SMSTESTMODE — Enable Dummy SMS Test Mode for Emulator Use**

**Purpose:**

When activated, this command simulates SMS send/receive locally without needing network registration, great for emulator environments like CelerSMS.

**Syntax:**

|  |  |
| --- | --- |
| Custom Command | Mock Responses |
| AT+SMSTESTMODE=1 // Enable simulation  AT+SMSTESTMODE=0 // Disable simulation  AT+SMSTESTMODE? // Check simulation status | OK // (on enable/disable)  +SMSTESTMODE: 1  OK // (when querying status) |

**Interpretation**:

* When ON, AT+CMGS returns a fake delivery receipt like:

+CMGS: 25

+DELIVERED: "Simulated"