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"