



Motorola Wireless Modules

G24-L GSM/GPRS Module

Release notes

Updated on:

20 January 2008

Last SW version:

G24-L SW 4-0.390-000

Document version:

1.0



Document History

Version	Date	Update reason
0.1	20 Sep. 2007	Release SW 0.224
1.0	20 Jan. 2008	Release SW 0.390

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Software versions & Generic sales models

Model Naming Convention

F67VWXYZ

- F67** Fixed number designating G24-L and G24-LC
- V** Model dependant features
V=0 Basic Quad band GPRS G24-L & G24-LC version.
- W** Battery Charger capability
W=0 No Charger capability
W=2 Charger capability available
- X** Flex version
X=A Basic flex settings file for SW release 0.224
X=B Basic flex settings file for SW release 0.390
- Y** HW version
Y=A First version
- Z** SW version
Z=A Software version 0.224
Z=B Software version 0.390

Table 1: Generic Sales Models

Model #	SW Version	SVN	Notes
F6700AAA	G24-L SW 4-0.224-000	0x21	NA/ROW
F6702AAA	G24-L SW 4-0.224-100	0x21	NA/ROW
F6700BAB	G24-L SW 4-0.390-000	0x38	NA/ROW
F6702BAB	G24-L SW 4-0.390-100	0x38	NA/ROW



G24-L 4-0.224 to G24-L 4-0.390

Table 2: G24-L-4-0.390 – New Features

New Features	
1	Internal TCP/IP – The G24-L support internal TCP/IP stack to establish a TCP/IP connection – See table 3
2	Filtering - Protect the G24-L module from non-authorized clients trying to establish an IP connection with it – See table 4
3	STK – SIM Tool Kit - set of applications and related procedures, which may be used in conjunction with SIM or Smart Cards during a GSM session -See table 5

Table 3: G24-L-4-0.390 – Internal TCP/IP

Internal TCP/IP	
1	<u>AT+MIPCALL</u> Sets up a PPP connection with the GGSN.
2	<u>AT+MIPOPEN</u> Initializes a new socket (TCP or UDP) and opens a connection with a remote side.
3	<u>AT+MIPCLOSE</u> Closes an open socket (TCP or UDP).
4	<u>AT+MIPSETS</u> Sets a watermark in the accumulating buffer.
5	<u>AT+MIPSEND</u> Stores the data in the accumulating buffer.
6	<u>AT+MIPPUSH</u> Push the data accumulated in the buffers into the protocol stack.
7	<u>AT+MIPFLUSH</u> Flush (delete) data accumulated in the buffers.
8	<u>+MIPRUDP</u> Unsolicited event is sent by G24-L to the terminal when data is received from the UDP protocol stack.
9	<u>+MIPRTCP</u> Unsolicited event is sent by G24-L to the terminal when data is received from the TCP protocol stack.
10	<u>+MIPSTAT</u> Unsolicited event is sent to the terminal indicating the connection status or activity.
11	<u>+MIPXOFF</u> Flow Control – Xoff - Unsolicited response the G24-L sends to the terminal to stop sending data when it does not have enough memory to process new +MIPSEND requests.
12	<u>+MIPXON</u> Flow Control – Xon - Unsolicited event the G24-L sends to the terminal when it detects that it has free memory in the accumulating buffer and can process new +MIPSEND requests.
13	<u>AT+MIPCONF</u> Configuration of the TCP stack parameters.
14	<u>AT+MPING</u> Verifies IP connectivity to the remote machine.



15	<u>+MPINGSTAT</u> Unsolicited response the G24-L sends to the terminal to inform of ping execution status update.
16	<u>AT+MSDNS</u> Configure DNS (Domain Name Server) IP address (primary/secondary) for each socket.

Table 4: G24-L-4-0.390 – Filtering

Filtering	
1	<u>AT+MIPCF</u> Protects the G24-L from non-authorized clients trying to establish an IP connection with it.

Table 5: G24-L-4-0.390 – STK

STK	
1	<u>AT+MTKR</u> Displays the profile that is downloaded from the G24-L to the SIM during the SIM initialization process.
2	<u>AT+MTKE</u> Enables/disables the SIM ToolKit functionality.
3	<u>AT+MTKP</u> Both command and unsolicited response which identifies the pro-active command sent by the SIM ToolKit and response.
4	<u>AT+MTKM</u> Select items from the STK menu.
5	<u>AT+MTKC</u> Unsolicited events notifying the terminal when supplementary services, SMS Control or Call Control are activated.

Table 6: G24-L-4-0.390 – HW Info

HW Info	
1	<u>AT+MMAD</u> Added functionality to support converter 5.
2	<u>AT+CFUN</u> Removed support in <fun> parameters 2, 3 for this command.

Table 7: G24-L-4-0.390 – Call Control

Call Control	
1	<u>AT+CRIT</u> Ring Tones 16,17,18 were added
2	<u>AT+CUSD</u> Added user action parameters 3, 4, 5 for this command.
3	<u>CSD Call</u> Only non-transparent mode is supported.



G24-L 4-0.224-000

Motorola M2M Wireless Modules are proud to present the latest addition the G24 product family, the G24-Lite module.

G24-Lite is a GSM/GPRS Quad-band RoHS compliant product supporting the right set of features at the right price tag that enables you to go large scale with your M2M applications.

The G24-Lite is fully type approved and complies with strict quality standards. The module supports GSM 07.05 and GSM 07.07 AT command sets as well as a set of various Motorola proprietary commands – Full details can be found in the AT commands reference manual. The product supports 2 basic configurations, G24-L and G24-LC (C stands for charger capability).

Amongst the features that will be available in future releases:
Internal TCP/IP stack, 115200 baud rate in RS232, GSM 07.10 – MUX protocol, Cell Broadcast, STK commands, Fax.

For further information please contact your distributor or our customer care team at M2MCare@motorola.com.