MOTOROLA

Release Notes

H24 HSPA Series

Technical Information
Motorola H24 Release Notes

Release Version: H24_U_0C.33.36R

May 17, 2010

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Software versions & Generic sales models

Model Naming Convention

F4UVWXYZ

U H24 Type.
- U=4 Fixed number designating H24

V Bands Selection:
- V=1 **H24 Global**: Quad band GSM/EDGE + 850/1900/2100 UMTS/HSPA
- V=2 **H24 Single**: Quad band GSM/EDGE + 2100 UMTS/HSPA
- V=5 **H24 Dual**: Quad band GSM/EDGE + 900/2100 UMTS/HSPA
- V=6 **H24 NA**: Quad band GSM/EDGE + 850/1900/1700-2100(AWS) UMTS/HSPA

W Hardware features configuration
- W=1 Basic
- W=4 RX Diversity + GPS

X Flex version
- X=A Basic flex settings file

Y HW version
- Y=A First version (H24-Global and H24-Single models only)
- Y=B Second version

Z SW version
- Z=A Software version 32.71R
- Z=B Software version 32.78R
- Z=C Software version 33.36R

α ESIM (customer specific)
- α =A No ESIM
- α =C TBD (reserved for first customer requiring embedded SIM)

Table 1: SW versions & SVN numbers

SW Version	SVN	Model Suffix
H24_U_0C.33. 36R	0x27	A

Table 2: Generic Sales models

Description	Model #	Approved
H24 Global *Advanced* (RX Diversity + GPS)	F4414ABCA	GCF & PTCRB
H24-Single *Advanced* (RX Diversity + GPS)	F4424ABCA	GCF
H24-Single *Basic*	F4421ABCA	GCF
H24-Dual *Advanced* (RX Diversity + GPS)	F4454ABCA	GCF
H24–NA *Advanced* (RX Diversity + GPS)	F4464ABCA	GCF & PTCRB

H24_U_0C.32.71R to H24_U_0C.33.36R

Table 3: H24_U_0C.33.36R - New Features

New Features		
1	LIBtt35869	UART1 MUX according to 3GPP 27.010 standard
2	LIBtt39890	GPS/A-GPS Support: Standalone, MS-Based and MS-Assisted operation modes
3	LIBtt31369	UART2: Additional serial connection. Optional usage AT commands, GPS NMEA streaming or logging.
4	LIBrr89015	Antenna detection feature: (ATS97, +MUANTYPEDET, +MUANTYPE)
5	LIBtt65949	Added support for data on USB to trigger WAKEUP_OUT HW line. This is similar to the interaction of the WAKEUP_OUT line and UART.
6	LIBtt72211	Duplicated PDP context activation - Allows opening two PDP contexts over the same APN (Availability is flex dependent)
7	LIBtt11169	Improved internal TCP/IP (ODM) throughput (using +MIPCONF).
8	LIBtt81176	New parameters for +MIPCONF: • Receive Window Size • Selective Ack
9	LIBtt46731	New user indication AT command (+MIND) • SIM ready • Serial ready (on control channel only) • SMS storage is full • RING indication control
10	LIBtt72208	New AT Command +MIOI for configuring GPIO as interruptible
11	LIBtt25438	AT+MCI: Add sfn-sfn parameter to WCDMA cell info output

Table 4: H24_U_0C.33.36R – Miscellaneous

Miscellaneous		
1	LIBrr95310	Improved Ignition functionality (similar to G24)
2	LIBtt66479	Improved SSL functionality
3	LIBtt75640	PCM interface Padding of is now configurable (flex dependent, default is changed to OFF)
4	LIBtt81847	Improved CCLK unsolicited report
5	LIBtt81626	Reduced power consumption in case RS232 connection is detached
6	LIBtt76233	+MTMP – Temperature sensor reading is more accurate
7	LIBtt72839	Add UDH length to the calculation of the length of an SMS with UDH and DCS 8bit
8	LIBtt71544	SMS text mode of UDH 7bit is now supported
9	LIBtt13684	Corrected DTMF send to the network
10	LIBtt73063	Echo Cancellation and Noise Suppression are fully Independent.
11	LIBtt71249	SIM “not ready” Error indication is now correct
12	LIBtt26380	In USB enumeration stage H24 now declares 20MA as the Maximum Possible current draw.
13	LIBtt13273	Entering sleep mode even if H24 is powered up w/o SIM is now possible
14	LIBrr79735	Input/output of GSM character set in HEX representation is now possible
15	LIBtt01564	MCWAKE unsolicited report is sent after disconnect/connect antenna
16	LIBtt15570	+MIPSETS sets the right default value for omitted TIMEOUT parameter.

H24_U_0C.32.78R

Motorola M2M Wireless Modules is proud to present the new member of the Motorola H24 Series of HSPA modules, The H24-NA HSPA Module.

H24-NA HSPA Module is certified for operation on T-Mobile USA's 3G network, and is now part of T-Mobile's M2M solutions portfolio.
The H24 series is designed for high-speed HSUPA/HSDPA connectivity, and includes embedded SIM technology to help withstand challenging environment factors like temperature, humidity and motion to deliver reliable wireless connectivity.
The 32.78R software includes the same features set as 32.71R while adding the support for 1700-2100 (AWS) band.

H24_U_0C.32.71R

Motorola M2M Wireless Modules is proud to present the H24 HSPA Series of Modules.

The H24 features high-speed HSUPA/HSDPA (5.76Mbps UL / 7.2Mbps DL) connectivity, plus quad-band GSM/GPRS/EDGE backwards compatibility.
This current release of the H24 is available in 2 versions – H24 Global (with tri-band 850/1900/2100MHz HSPA) and H24 Single (2100MHz HSPA).

The module supports GSM 07.05, GSM 07.07 AT command sets and a set of various Motorola proprietary commands – Full details can be found in the AT commands reference manual.

The H24 HSPA Series includes the following features:

- HSUPA 5.76 Mbps
- HSDPA 7.2 Mbps
- Enhanced Audio
- High-Speed USB 2.0
- Fast UART (4 Mbps)
- FOTA Support
- Receiver Diversity

Future releases will include:

- GPS
- MUX 27.010
- MMS
- eMail

For further information please contact your distributor or our helpdesk at
M2M.CustomerCare@motorola.com