

GSA Survey Confirms 3,362 HSPA Devices Launched

- 440 devices added to database in past year
- Includes HSPA+ devices
- Includes products which also support LTE

GSA's latest HSPA Devices Survey identifies 3,362 HSPA (High Speed Packet Access) devices that have been launched in the market (*note: not all products are current or available in every market.*) The number of manufacturers increased from 255 (February 2011) to 271 companies today.

HSPA devices address all market segments. There are 1,413 mobile phones which is more than 15% higher than a year ago. The number of routers including mobile hotspots increased by almost a third in the same period.

1,413	Mobile phones including smartphones
580	USB modems
502	Notebooks, netbooks
434	Wireless routers/gateways, mobile hotspots
295	PC data cards (PCMCIA cards, ExpressCards, embedded modules)
48	Personal Media Players, UMPCs
27	Femtocells
12	E-book readers
8	Cameras
43	Mobile tablets
Total 3,362	<i>(January 24, 2012: GSA HSPA Devices survey)</i> © Global mobile Suppliers Association (GSA)

HSPA devices by form factor

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Excluding notebooks and e-book readers, 2,643 HSPA devices (> 92%) support peak downlink data speeds of 3.6 Mbps or more, including 1,815 devices (> 63%) that support 7.2 Mbps peak or higher. 245 HSPA+ devices (compared to 92 a year ago) are launched. 137 devices support 21 Mbps peak DL, 14 support 28.8 Mbps, 93 support 42 Mbps DC-HSPA+ (compared to 22 a year ago), and one device supports 84 Mbps. 27 HSPA+ smartphones (including carrier and frequency variants) are confirmed, including 4 phones which support 42 Mbps DC-HSPA+. The number of HSPA-enabled tablets increased from 13 to 43 over the past year.

HSUPA

1,288 HSUPA (High Speed Uplink Packet Access) devices are launched, representing 36% YoY growth. 828 HSUPA devices support or are upgradeable for

5.76 Mbps peak operation, including 42 devices supporting 11.5 Mbps on the uplink.

160 dual-mode HSPA-LTE devices are launched.

HD Voice (W-AMR)

75 HSPA phones with HD Voice (W-AMR) technology are listed, including carrier and frequency variants.

HSPA operating frequency bands

Most WCDMA-HSPA mobile broadband networks operate in the 3G/2100 MHz band, except in the Americas where HSPA systems typically operate in the 850/1900 MHz and also in AWS spectrum.

Deploying HSPA in lower bands (below 1 GHz) gives a much larger coverage area and a significant reduction in cell sites needed, compared to 2100 MHz. Several operators have commercially launched HSPA in 900 MHz spectrum (UMTS900), typically as a complement to 2100 MHz systems, to extend voice, data and mobile broadband services coverage to rural areas; voice quality is also improved. UMTS900-HSPA devices are mainstream in markets such as Europe and many Asian countries. Similar benefits and efficiencies are derived from deployments in 850 MHz used in the Americas, Australia, and Asia.

Band I	2100 MHz	2563 devices (c. 90%)
Band V	850 MHz	1339 devices (c. 47%)
Band I, II, V	850/1900/2100 MHz	979 devices (c. 34%)
Band I, V	850/2100 MHz	1123 devices (c. 39%)
Band VIII	900 MHz	719 devices (c. 25%)
Band IV	AWS	158 devices (> 5%)

HSPA devices by frequency (excl. notebooks, e-book readers)

January 24, 2012: GSA HSPA Devices survey
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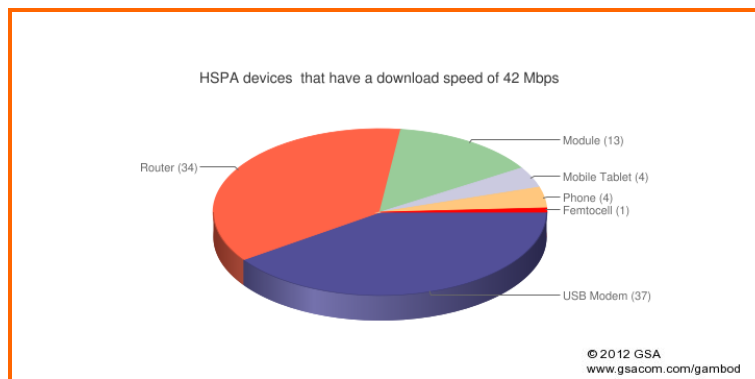


Figure 1: Ninety-three 42 Mbps DC-HSPA+ devices launched

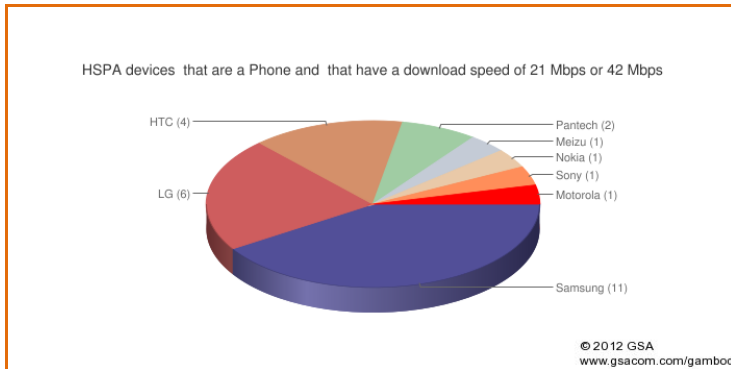


Figure 2: 27 HSPA+ smartphones launched

HSPA – GSM/EDGE

Most HSPA operators have deployed GSM/EDGE for service continuity and the best user experience. This survey confirms that, excluding notebooks and e-book readers 2,321 HSPA devices (c. 86%) also support GSM/EDGE.

HSPA Networks – Global Status

For the latest information about HSPA network commitments, deployments, and launches worldwide, including peak downlink and uplink speeds, see GSA's *HSPA Operator Commitments report* – a free download via the link on www.gsacom.com

For the status of HSPA+ networks, see GSA's *Global HSPA+ Network Commitments and Deployments report* – a free download via the link on www.gsacom.com

Also see the UMTS900 Global Status report – another free download via the link on www.gsacom.com



www.gsacom.com/gambod

GAMBoD is the **GSA Analyzer for Mobile Broadband Devices**, a unique search and analysis tool developed by GSA for mobile broadband devices, allowing searches by supplier, form factor, features, peak downlink and uplink speeds, and operating frequency. Results are presented as a list, or as a spreadsheet, or in charts. An RSS feed can be subscribed to for alerts as new devices of interest are added to the database. Charts may be inserted into documents or presentations, subject to accreditation of GSA as the source.

GAMBoD is available only to qualified site users, which GSA has defined as employees of GSA member companies who

have registered using their corporate email address, or representatives of network operators who have registered using their corporate email address.

Two databases are available for personalized analysis – one for HSPA, HSPA+ and DC-HSPA+ user devices as confirmed in this report. A second database references the LTE devices confirmed in GSA report "Status of the LTE Ecosystem". Both databases are very popular and heavily visited and used.

SUPPLIER	DEVICE
2N Telecommunications	2N OfficeRoute
2N Telecommunications	EasyRoute
2wire	HomePortal BaseStation
4G Systems	XSBX Move

Figure 3: GAMBoD-HSPA launch page www.gsacom.com/gambod

More charts showing HSPA (HSDPA, HSUPA) devices growth, trends, segmentation, operator deployments, launches, maps, etc: www.gsacom.com/news/statistics.php4

Errors and Omissions Excepted. [Updates, enquiries to info@gsacom.com](mailto:info@gsacom.com)

GSA (Global mobile Suppliers Association) represents GSM/EDGE/WCDMA-HSPA/HSPA+ and LTE suppliers. GSA brings together a global industry community of telecoms professionals through the website and practical activities. The GSA website www.gsacom.com has over 45,000 registered users for knowledge gathering and information sharing of key facts, trends and analysis. Register for free downloads of reports, information papers, maps, charts, etc. www.gsacom.com/php/register_form.php4

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