

# REPORT: Status of the LTE Ecosystem

*July 29, 2011*

This updated report researched and published by GSA ( Global mobile Suppliers Association) – which lists 161 LTE devices launched in the market up to the present day, confirms how a robust user device ecosystem is rapidly establishing to support LTE as the fastest developing mobile communications system technology ever

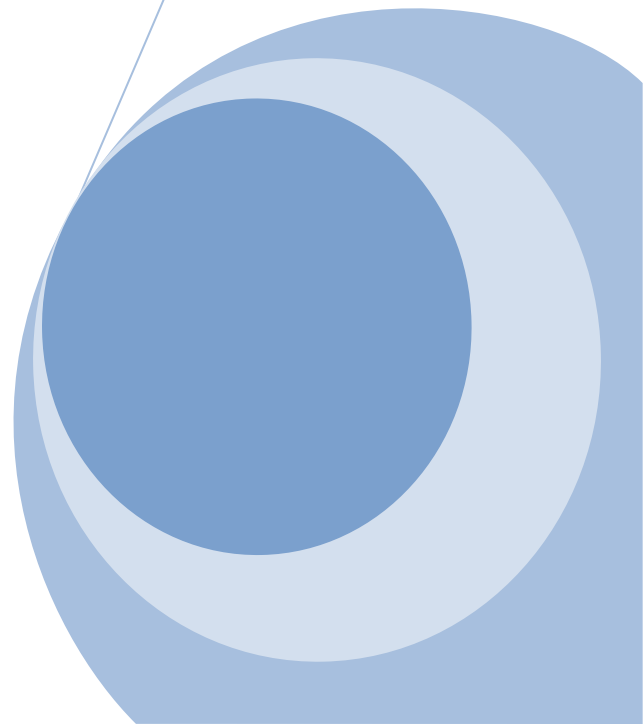
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## Deployment of LTE systems is the main industry direction.

Mobile phones, computer and consumer electronic devices including notebooks, netbooks, UMPCs, tablets, gaming devices, cameras, PMPs and more will have embedded LTE connectivity.

Huge growth in M2M apps enabled by LTE is forecast. The LTE standard supports hand-over and roaming to existing mobile networks and most devices ensure ubiquitous MBB coverage from day one.

GSA regularly surveys mobile broadband market developments, and publishes a regularly updated report which is called "Evolution to LTE" detailing operator commitments to LTE, network deployments, launches, trials, regulatory and market developments worldwide. In the latest report (July 6, 2011) GSA confirmed that 218 operators are investing in LTE, with 166 LTE network commitments and 52 additional pre-commitment trials on-going. 24 commercial LTE

systems are launched and at least 91 networks are anticipated to be in commercial service by end 2012.

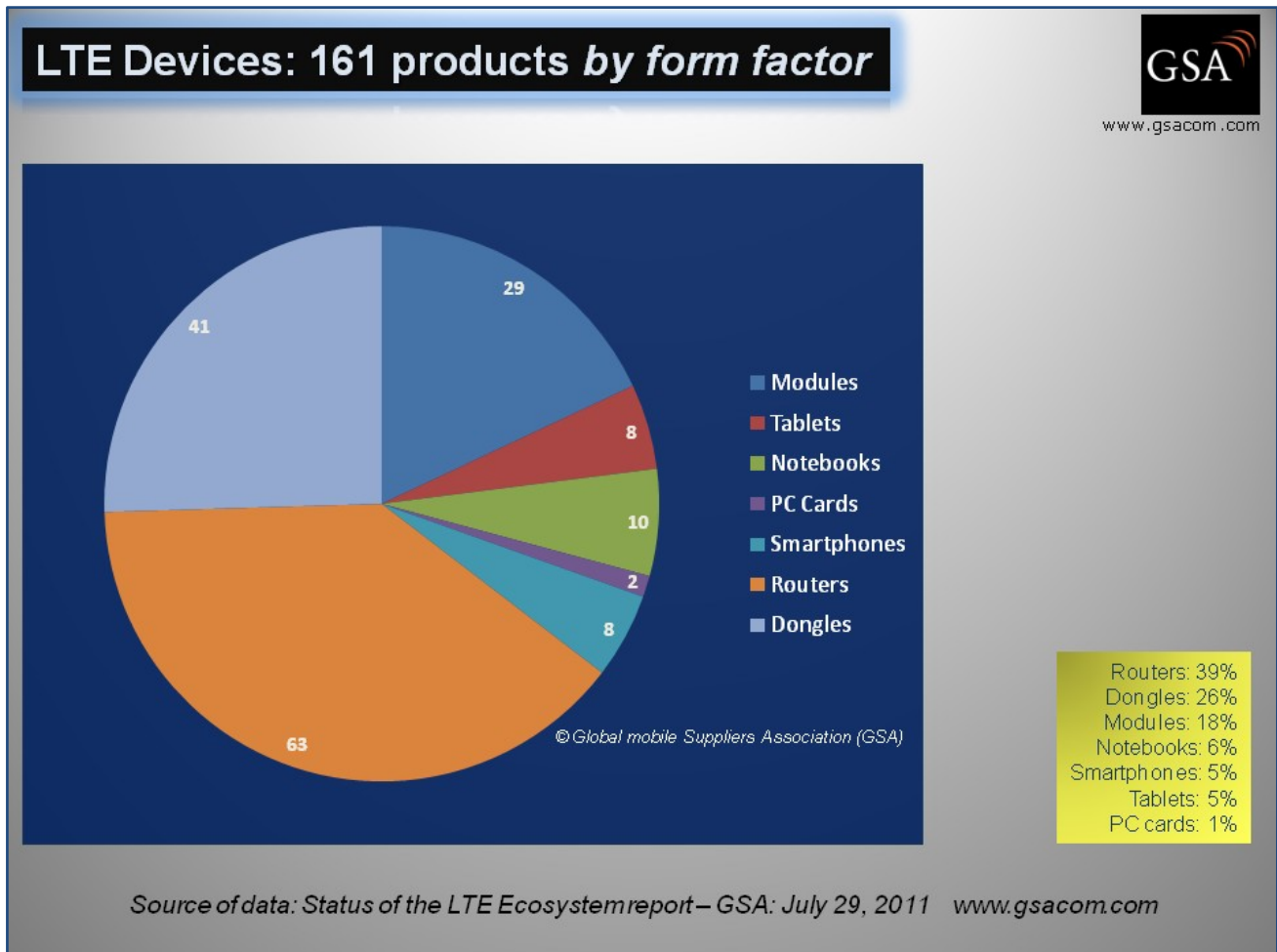
**LTE is the fastest developing mobile system technology ever**

The eco-system of LTE-capable user devices is rapidly developing to meet current and anticipated future needs of operators and their customers.

Several LTE user devices are in commercial use or announced and many more are in the pipeline.

This updated report includes LTE product launches and announcements up to the present day by 45 manufacturers, and confirms how a robust LTE ecosystem is rapidly establishing.

**161** LTE user devices are confirmed and listed in this report. *This figure is 64% higher than in GSA's Status of the LTE Ecosystem report published in March 2011.*



**LTE NETWORKS:** See GSA's Evolution to LTE Report for the global status of LTE operator commitments, network deployments, launches, trials, regulatory developments, etc. (free download for registered site users a [www.gsacom.com](http://www.gsacom.com))

161 LTE User Devices (Source: GSA – July 29, 2011)

| Supplier          | Model                    | LTE Operating Frequency        | Other modes                       |
|-------------------|--------------------------|--------------------------------|-----------------------------------|
| <b>MODULES</b>    |                          |                                |                                   |
| AnyDATA           | DTP960S LTE              | AWS, L-band                    | HSPA+                             |
| Cisco             | EHWIC-4G-LTE-V           | 700                            | EV-DO                             |
| Cisco             | EHWIC-4G-LTE-A           | 700, AWS, 2100                 | DC-HSPA+                          |
| Cisco             | EHWIC-4G-LTE-G           | 800, 900, 1800<br>2100, 2600   | DC-HSPA+                          |
| Ericsson          | F7500p                   | 700, AWS                       | TBC                               |
| GCT               | GDM7240 chipset          | Quad                           | TBC                               |
| Franklin Wireless | M700 LTE/HSPA+           | TBC                            | HSPA+                             |
| Franklin Wireless | M700 LTE/EV-DO           | 700                            | EV-DO                             |
| Huawei            | EM920V                   | TBC                            | HSPA                              |
| LG                | WM300                    | 700                            | TBC                               |
| LG                | L2000                    | 700                            | TBC                               |
| Novatel Wireless  | E162G                    | 700                            | DC-HSPA+                          |
| Novatel Wireless  | E172 4G LTE              | 700, AWS                       | DC-HSPA+                          |
| Novatel Wireless  | Expedite E351            | 700                            | EV-DO                             |
| Novatel Wireless  | Expedite E362            | 700                            | HSPA+<br>EV-DO                    |
| Novatel Wireless  | Expedite E371            | 700, AWS                       | HSPA+<br>EV-DO                    |
| Novatel Wireless  | Expedite E373            | Multiband                      | DC-HSPA+                          |
| Qualcomm          | MDM9625 chipset          | Multiband                      | DC-HSPA+<br>EV-DO<br>TD-<br>SCDMA |
| Qualcomm          | MDM9225 chipset          | Multiband                      | DC-HSPA+<br>TD-<br>SCDMA          |
| Renesas           | SP2531 modem FDD and TDD | Multiband inc. TDD             | DC-HSPA+                          |
| Renesas           | MP5225                   | Multiband                      | DC-HSPA+                          |
| Seqans            | SQN3010 TD-LTE           | Bands 38, 40, 41               | None                              |
| Sierra Wireless   | Airprime MC7700          | 700, AWS                       | HSPA+                             |
| Sierra Wireless   | Airprime MC7710          | 800, 900 1800,<br>2100<br>2600 | HSPA+                             |
| Sierra Wireless   | Airprime MC7750          | 700                            | HSPA+<br>EV-DO                    |
| ST-Ericsson       | M710 Multimode LTE       | Quad                           | HSPA                              |
| ST-Ericsson       | Thor M720                | Multiband                      | HSPA+                             |
| ST-Ericsson       | Thor M700                | Quad                           | None                              |
| ST-Ericsson       | Thor M7400 FDD and TDD   | Includes 700<br>2600 inc TDD   | DC-HSPA+                          |
| <b>M-TABLETS</b>  |                          |                                |                                   |
| Acer              | Iconia Tab A500          | 700                            | HSPA+                             |
| Cisco             | Cius                     | 700                            | EV-DO                             |
| Motorola          | Xoom                     | 700                            | EV-DO                             |
| RIM               | 4G Playbook              | 700                            | EV-DO                             |
| Samsung           | Galaxy Tab LTE           | 700                            | EV-DO                             |
| ZTE               | Light2                   | TBC                            | HSPA                              |
| ZTE               | Light LTE                | 700                            | EV-DO                             |
| ZTE               | V11L                     | 800, 1800, 2600                | HSPA                              |
| <b>NOTEBOOKS</b>  |                          |                                |                                   |
| Dell              | Latitude E6420           | 700                            | HSPA                              |
| Dell              | Latitude E6420 ATG       | 700                            | HSPA                              |
| Dell              | Latitude E6420 XFR       | 700                            | HSPA                              |
| GammaTech         | D12C                     | 700                            | TBC                               |

|                 |                           |                               |                   |
|-----------------|---------------------------|-------------------------------|-------------------|
| HP              | Pavilion dm1-3010nr       | 700                           | EV-DO             |
| HP              | Compaq CQ10-688nr         | 700                           | TBC               |
| Panasonic       | Toughbook CF-53           | TBC                           | HSPA<br>EV-DO     |
| Samsung         | N350                      | TBC                           | HSPA+             |
| Samsung         | N150                      | 2600                          | HSPA              |
| Samsung         | X430                      | 2600                          | HSPA              |
| <b>PC CARDS</b> |                           |                               |                   |
| Fujitsu         | Xi F-06C                  | 1500                          | HSPA              |
| IP Wireless     | LTE PEM Card              | Inc. 700, 2600                | None              |
| <b>PHONES</b>   |                           |                               |                   |
| HTC             | Thunderbolt               | 700                           | EV-DO             |
| LG              | VS910 Revolution          | 700                           | EV-DO             |
| Motorola        | Droid Bionic              | 700                           | EV-DO             |
| Samsung         | Galaxy S 4G LTE Vibrant   | 700                           | EV-DO             |
| Samsung         | Craft SCH-R900            | AWS                           | EV-DO             |
| Samsung         | Galaxy S SCH-R910 Indulge | AWS                           | EV-DO             |
| Samsung         | Droid Charge SCH-i510     | 700                           | EV-DO             |
| ZTE             | V5L                       | 800, 1800, 2600               | HSPA              |
| <b>ROUTERS</b>  |                           |                               |                   |
| Actiontec       | 4GRN-DV                   | 700 (Band 13)                 | None              |
| Actiontec       | 4GRN-D                    | 700 (Band 13)                 | None              |
| Actiontec       | 4GRN-L                    | 700 (Band 13)                 | None              |
| Actiontec       | 4GRN-LV                   | 700 (Band 13)                 | None              |
| Actiontec       | 4GRN-DL                   | 700 (Band 13)                 | None              |
| Actiontec       | 4GRN-DLV                  | 700 (Band 13)                 | None              |
| AVM             | FRITZBox 6840             | 800, 2600                     | None              |
| BandRich        | BandLuxe PR51             | 2600,1800,800                 | DC-HSPA+          |
| BandRich        | BandLuxe PR55             | 700,AWS                       | DC-HSPA+          |
| BandRich        | BandLuxe PR58 with TDD    | 2300 TDD                      | DC-HSPA+          |
| BandRich        | BandLuxe PR59 with TDD    | 2600 TDD                      | DC-HSPA+          |
| BandRich        | BandLuxe R501             | 800, 1800, 2600               | DC-HSPA+          |
| BandRich        | BandLuxe R505             | 700, AWS                      | DC-HSPA+          |
| BandRich        | BandLuxe R508 with TDD    | 2300 TDD                      | DC-HSPA+          |
| BandRich        | BandLuxe R509 with TDD    | 2600 TDD                      | DC-HSPA+          |
| BandRich        | BandLuxe R510             | AWS, 700 (B13)                | EV-DO             |
| BandRich        | BandLuxe R512             | 850, 1900                     | EV-DO             |
| Buffalo         | Xi BF-01C                 | Japan                         | HSPA              |
| C-motech        | CLR-960                   | 700                           | EV-DO             |
| Cradlepoint     | CBA750                    | 700                           | EV-DO             |
| Cradlepoint     | CTR500                    | 700                           | HSPA<br>EV-DO     |
| Cradlepoint     | MBR1000                   | 700                           | HSPA<br>EV-DO     |
| Cradlepoint     | CBA250                    | 700                           | EV-DO             |
| Cradlepoint     | MBR1200                   | 700                           | EV-DO             |
| Cradlepoint     | CTR35 Travel router       | 700                           | HSPA+             |
| Dovado          | 4GR                       | Multiband                     | DC-HSPA+          |
| Dovado          | 3GN                       | Multiband                     | DC-HSPA+          |
| Dovado          | TINY                      | Multiband                     | DC-HSPA+<br>EV-DO |
| Fujitsu         | Si-R G200                 | Japan                         | HSPA              |
| Huawei          | E589 personal HS          | 700, 900, 1800,<br>2100, 2600 | HSPA              |
| Huawei          | B390/B391                 | 800                           | None              |
| Huawei          | B593                      | 800, 900, 1800,<br>2100, 2600 | HSPA              |

|                      |                                  |                              |                   |
|----------------------|----------------------------------|------------------------------|-------------------|
| Huawei               | Vodafone B1000                   | 800                          | None              |
| Lancom               | 1681-4G                          | 700                          | HSPA+             |
| LG                   | FM300                            | 800                          | TBC               |
| LG                   | Xi L-09C                         | Japan                        | HSPA              |
| NEC                  | BBRide                           | TBC                          | HSPA              |
| NetComm              | Liberty LTE WiFi                 | TBC                          | HSPA+             |
| Netgear              | MBR1000                          | 700                          | HSPA              |
| Netgear              | MBR1000 HSPA+                    | 700                          | HSPA+             |
| Netgear              | MBR1515                          | Multiband                    | DC-HSPA+<br>EV-DO |
| Netgear              | MBR1517                          | Includes 2600                | HSPA+             |
| Netgear              | MBR2000                          | Multiband                    | HSPA+             |
| Nexaira              | Business Class II                | TBC                          | HSPA+             |
| Novatel<br>Wireless  | MiFi 4510L                       | 700                          | EV-DO             |
| ProLink              | PWH2004                          | TBC                          | HSPA              |
| Samsung              | 4GLTE Mobile<br>Hotspot SCH-LC11 | 700                          | EV-DO             |
| Samsung              | SHV-E100L                        | 700                          | EV-DO             |
| Sierra Wireless      | AirCard 754S                     | 700                          | HSPA+             |
| Sierra Wireless      | AirLink GX440                    | 700                          | HSPA+<br>EV-DO    |
| Teradek              | CUBE-150                         | 700                          | EV-DO             |
| Teradek              | CUBE-250                         | 700                          | EV-DO             |
| Ventus               | V1000                            | Multiband                    | HSPA+<br>EV-DO    |
| Ventus               | V2000                            | Multiband                    | HSPA+<br>EV-DO    |
| Ventus               | V4100                            | Multiband                    | HSPA+<br>EV-DO    |
| Ventus               | V4200                            | Multiband                    | HSPA+<br>EV-DO    |
| Ventus               | V4500                            | Multiband                    | HSPA+<br>EV-DO    |
| Vololink             | VoloAccess VA126                 |                              | DC-HSPA+          |
| ZTE                  | MF91 mobile<br>hotspot           | TBC                          | DC-HSPA+          |
| ZTE                  | MF92 mobile<br>hotspot           | TBC                          | HSPA+             |
| ZyXEL                | ZLR-2070S                        | 700                          | TBC               |
| ZyXEL                | MWR-211                          | 700                          | HSPA<br>EV-DO     |
| ZyXEL                | MWR-222                          | 700                          | HSPA<br>EV-DO     |
| <b>USB Modems</b>    |                                  |                              |                   |
| AnyDATA              | ADU960S                          | TBC                          | HSPA+             |
| BandRich             | BandLuxe C501                    | 1800, 2600                   | DC-HSPA+          |
| BandRich             | BandLuxe C502                    | 800, 2600                    | DC-HSPA+          |
| BandRich             | BandLuxe C505                    | AWS, 700 (B17)               | DC-HSPA+          |
| BandRich             | BandLuxe C506                    | 700 (B13)                    | DC-HSPA+          |
| BandRich             | BandLuxe C508                    | TDD 2300                     | DC-HSPA+          |
| BandRich             | BandLuxe C509                    | TDD 2600                     | DC-HSPA+          |
| BandRich             | BandLuxe C510                    | AWS, 700 (B13)               | EV-DO             |
| BandRich             | BandLuxe C512                    | 850, 1900                    | EV-DO             |
| Franklin<br>Wireless | U700 LTE-EVDO                    | TBC                          | EV-DO             |
| Franklin<br>Wireless | U700 LTE-HSPA+                   | TBC                          | HSPA+             |
| Huawei               | E392                             | 800, 900, 1800,<br>2100,2600 | DC-HSPA+          |
| Huawei               | E397                             | 700, 2100                    | DC-HSPA+          |
| Huawei               | E398                             | 700, AWS, 800,<br>1800, 2600 | DC-HSPA+          |
| Huawei               | E398 T Mobile<br>Speedstick      | TBC                          | DC-HSPA+          |
| Huawei               | E398 Vodafone<br>K5005           | TBC                          | DC-HSPA+          |

|                     |                        |                         |                |
|---------------------|------------------------|-------------------------|----------------|
| IP Wireless         | USB-032038-AL-<br>03-E | 800, 1800, 2600         | None           |
| IP Wireless         | USB-121341-AL-<br>03-U | 700, 2600               | None           |
| IP Wireless         | USB-041213-AL-<br>03-U | 700, AWS                | None           |
| IP Wireless         | USB-40-AL-03-A         | 2300                    | None           |
| LG                  | LD100                  | 1500                    | None           |
| LG                  | Xi L-02C               | 1500                    | HSPA           |
| LG                  | VL600                  | 700                     | EV-DO          |
| LG                  | Adrenaline AD600       | 700, AWS                | HSPA           |
| Motorola            | USB-LTE 7110           | TBC                     | TBC            |
| Nexpring            | LTE USB Modem          | 700, AWS                | DC-HSPA+       |
| Nokia               | RD-3 multi mode        | TBC                     | HSPA+          |
| Novatel<br>Wireless | Ovation MC551          | 700                     | EV-DO          |
| Novatel<br>Wireless | USB551L                | 700                     | EV-DO          |
| Pantech             | UML290                 | 700                     | EV-DO          |
| Samsung             | GT-B3730               | 2600                    | HSPA+          |
| Samsung             | GT-B3710               | 2600                    | None           |
| Samsung             | GT-B3740               | 800                     | None           |
| Sierra Wireless     | AirCard 313U           | 800, 1800, 2600         | DC-HSPA+       |
| Sierra Wireless     | AirCard 320U           | 800, 1800, 2600         | DC-HSPA+       |
| ZTE                 | AL600                  | TBC                     | HSPA+<br>EV-DO |
| ZTE                 | AL620                  | TBC                     | HSPA+          |
| ZTE                 | AL621                  | 2600<br>plus 1800 later | HSPA+          |
| ZTE                 | MF820                  | 1800, 2100, 2600        | HSPA+          |
| ZTE                 | MF820D                 | 800, 1800, 2600         | HSPA+          |
| ZTE                 | MF29L                  | TBC                     | HSPA+          |

**LTE User Devices – July 29, 2011**  
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**NOTES:**

1. Errors & Omissions Excepted.
2. User devices may not be available in all markets
3. The stated LTE operating frequency is an indication of which band(s) the device is capable of working in; details are included where known (otherwise TBC = to be confirmed). Actual frequency band configurations may be market or carrier- specific
4. Broad announcements relating e.g. to future product collaborations or launches are not included

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