

Mobile Broadband in Europe and North America

Mobile Broadband in Europe and North America is the fourth consecutive yearly report from Berg Insight analysing the rise of mobile broadband. This year North America is also covered for the first time.

This 150 page strategic research report provides you with unique business intelligence and expert commentary on which to base your business decisions.

This report will allow you to:

- **Understand** the dynamics of the European and North American mobile broadband market.
- **Learn** about the mobile broadband strategies of leading telecom operator groups.
- **Evaluate** the impact of HSPA+ and LTE technology in the mobile broadband market.
- **Identify** the key success factors for launching HSPA broadband on the consumer market.
- **Anticipate** the timing for mass-market availability of embedded HSPA/LTE modems in notebook PCs.
- **Profit** from valuable insights about the most successful business and technology propositions on the market.



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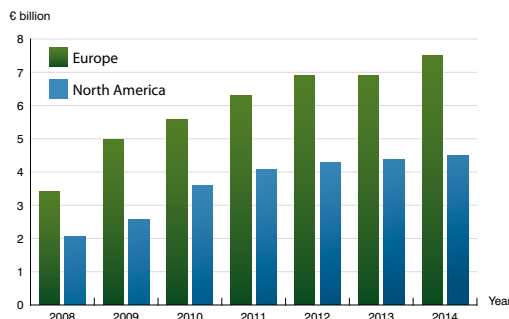


Continued strong growth for mobile broadband connected PCs in Europe and North America

Mobile broadband based on HSPA/LTE and other mobile communication standards has taken off as an important technology for connecting mobile PCs to the Internet. The evolution is led by Europe where HSPA now accounts for 12 percent of the total number of broadband connections, compared to 5 percent in North America. The concept that was first launched as an exclusive business service is now a mass-market consumer product sold on an intensively competitive market. Consumers are utilizing their mobile broadband connections extensively, pushing the networks to their capacity limits. In fact the overwhelming majority of data traffic on mobile networks is today generated by notebook PC users that surf the Internet, not smartphone users.

Berg Insight estimates the total global number of shipped mobile broadband devices in 2008 to 37.2 million, with Europe and North America accounting for 18.2 million units and 3.7 million units respectively. The European device market grew by 222 percent in 2008, but is likely to cool off in 2009 as operators start reducing their inventories. Growth is forecasted to continue with shipments reaching 68 million units in 2014, fuelled by integration in notebook PCs and strong demand for mobility. Also the North American device market will experience a rapid growth to reach 45 million shipments in 2014. The ASP in Europe was reduced from about € 100 in 2007 to € 45 in 2008. The US device market is still focused on business users and the Chinese vendors Huawei and ZTE have not managed to capture significant market shares, whereby the ASP remained as high as US\$ 150 in 2008.

The European mobile broadband service market continues to grow rapidly, with demand fuelled by declining prices, improved user experience and massive marketing campaigns. Berg Insight estimates that the total number of mobile broadband subscribers in EU 23+2 grew by 74 percent to reach 14.6 million in 2008 while the estimated operator revenues reached € 3.4 billion. The European mobile broadband market is expected to grow at a compound annual growth rate of 14.3 percent to reach € 7.6 billion in 2014. While the expected high demand from the PC-industry will lead to higher shipment volumes for embedded modules, the vast majority of new subscribers will only be occasional users generating lower network ARPU.



Mobile broadband revenues forecast (Europe/North America 2008–2014)

Berg Insight estimates that the number of mobile broadband subscribers in North America was about 4 million at the end of 2008. The estimated service revenues were about US\$ 2.9 billion and are expected to grow at a compound annual growth rate of 13.9 percent, to reach US\$ 6.3 billion in 2014. The growth in North America will accelerate when operators start to target the consumer segment with attractively priced proposals. At a later stage, the increasing number of notebooks featured with embedded modules will drive usage as consumers do not need to make the initial hardware investment.

Huawei has established itself as the world's largest supplier of mobile broadband terminals and has a particularly strong foothold in Europe. In North America, the local vendors Sierra Wireless and Novatel Wireless still hold strong positions on a market where EVDO is the dominant network technology. Option was previously the main supplier in Europe, prior to Huawei's entrance and launch of the USB modem and is now ranked second. ZTE is the latest player to join the race and have adopted an aggressive pricing strategy to capture market shares. Two of the largest telecom vendors – Ericsson and Qualcomm – entered the market for embedded solutions in 2008 and managed to sign contracts with many of the major notebook vendors.

This report answers the following questions:

- What are the key drivers behind the adoption of mobile broadband?
- Which markets have the highest penetration rates and which are lagging behind?
- What are the critical success factors needed to gain mass-market traction for mobile broadband?
- Who are the leading global providers of mobile broadband terminal devices?
- What will be the future role of wireless chipset suppliers in the value chain?
- When will embedded mobile network connectivity become a standard feature in mass-market notebook PCs?
- How is fixed-mobile convergence and telecom service bundling going to affect the mobile broadband market?
- What impact will LTE have on the mobile broadband market?

► Table of Contents



1 Market environment		
1.1 Internet usage		
1.2 The European broadband communications market		
1.2.1 Fixed broadband market		
1.2.2 Wireless market		
1.3 The North American broadband communications market		
1.3.1 Fixed broadband market		
1.3.2 Wireless market		
2 Evolved 3G network technology		
2.1 Wireless technology roadmap		
2.1.1 GSM		
2.1.2 3G networks UMTS/WCDMA – 3GPP Release 99 (Q1-2000)		
2.1.3 HSDPA – 3GPP Release 5 (Q1-2002)		
2.1.4 HSUPA – 3GPP Release 6 (Q4-2007)		
2.1.5 HSPA+ – 3GPP Release 7 (Q2-2008)		
2.1.6 HSPA+ – 3GPP Release 8 and further evolution (H1-2009)		
2.1.7 LTE – 3GPP Release 8 (H1-2009)		
2.1.8 The CDMA/EVDO track		
2.1.9 Other wireless technologies		
2.1.10 Comparison of technologies		
2.2 Evolution of network infrastructure		
2.2.1 From traditional to evolved network architecture		
2.2.2 Improving network backhaul capacity		
2.2.3 Expansion to new frequency bands		
2.3 Evolution of wireless chipsets		
3 Mobile broadband device vendors		
3.1 Mobile broadband data terminals and form factors		
3.1.1 USB modems		
3.1.2 Embedded solutions		
3.1.3 PC-cards		
3.1.4 Gateways		
3.2 Mobile broadband terminal vendors		
3.2.1 Huawei		
3.2.2 Option		
3.2.3 Novatel Wireless		
3.2.4 Sierra Wireless		
3.2.5 ZTE		
3.2.6 4G Systems		
3.2.7 AnyDATA		
3.2.8 BandRich		
3.2.9 Onda Communications		
3.2.10 Teltonika		
3.2.11 C-motech		
3.2.12 Axesstel		
3.2.13 Others		
3.3 Embedded solution vendors		
3.3.1 Ericsson		
3.3.2 Qualcomm		
3.3.3 Others		
4 Notebook PC integration		
4.1 The global notebook PC market		
4.1.1 Market trends		
4.1.2 Notebook PC vendor market shares		
4.2 Integration of mobile broadband in notebook PCs		
4.3 Notebook vendors		
4.3.1 Hewlett Packard		
4.3.2 Acer		
4.3.3 Dell		
4.3.4 Toshiba		
4.3.5 Lenovo		
4.3.6 Fujitsu		
4.3.7 Sony		
4.3.8 ASUS		
4.3.9 Panasonic		
4.3.10 Samsung Electronics		
4.3.11 Dialogue		
4.3.12 LG		
5 Operator strategies for mobile broadband		
5.1 Mobile broadband usage		
5.2 Business models		
5.2.1 Postpaid subscriptions		
5.2.2 Prepaid subscriptions		
5.2.3 Bundling with other services		
5.3 Pricing and conditions		
5.3.1 Pricing		
5.3.2 International roaming		
5.3.3 Terms of use		
5.4 3 Group		
5.5 Deutsche Telecom		
5.6 France Telecom		
5.7 KPN Group		
5.8 Telecom Italia		
5.9 Telekom Austria		
5.10 TeliaSonera		
5.11 Telefónica Group		
5.12 Vodafone Group		
5.13 Verizon Wireless		
5.14 AT&T		
6 Market forecasts and trends		
6.1 Market summary		
6.2 Device market		
6.2.1 Vendor market shares		
6.2.2 Form factor trends		
6.3 The European mobile broadband service market		
6.3.1 Pricing trends		
6.3.2 Network technology trends		
6.3.3 Service convergence trends		
6.4 The North American mobile broadband service market		
6.4.1 Pricing trends		
6.4.2 Network technology trends		
7 Market profiles: Western Europe, North America and Australia		
7.1 Austria		
7.2 Sweden		
7.3 United Kingdom		
7.4 USA		
7.5 International outlook: Australia		
Glossary		



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