



I DISPOSITIVI TERMINALI DI TEST

Una delle configurazioni di terminale, lato cliente, molto diffusa ed utilizzata sul mercato nazionale per l'accesso a internet da terminale mobile, è rappresentata dalla cosiddetta *connect card*, con interfaccia USB lato PC e interfaccia di rete UMTS/HSDPA

Utilizzando tale tipologia di terminale per le misure sul campo in condizioni operative nomadiche, si emula una delle più tipiche configurazioni dell'utente che fruisce del servizio dati in mobilità, rappresentata da utente attestato su PC, dotato di interfaccia di rete UMTS/HSDPA, che accede al servizio in condizioni statiche.

I requisiti di base a cui il dispositivo da selezionare deve soddisfare sono:

- capacità di accedere alle varie reti disponibili in tecnologia 2G e 3G;
- in accordo all'esigenza di non costituire un elemento limitante all'attuale *best technology* delle reti 3G messe in campo dagli operatori, supporto della tecnologia Dual Cell HSPA, con velocità massima di trasferimento in DownLink di 42.2 Mbps, in accordo allo standard 3GPP Release 8, Category 24 per HSDPA, e in UpLink di 5,76 Mbps, in accordo allo standard 3GPP Release 6, Category 6 per EUL (HSUPA).

Per la prima campagna di misura del 2013, gli Operatori hanno selezionato i seguenti dispositivi:

- **Huawei K4605** adottato da H3G¹, Vodafone e Wind
- **Huawei E372** adottato da Telecom Italia.

¹ Per la rete di H3G, che non dotata di propria tecnologia 2G, il dispositivo è stato forzato ad accedere alla sola tecnologia 3G. Tenendo però conto che H3G consente, ai propri clienti, eventuale roaming sulla rete 2G di altro Operatore, allo scopo di emulare, durante le prove, quanto più possibile la condizione operativa reale degli utenti, per le prossime campagne il dispositivo sarà configurato, anche per H3G, ad utilizzare sia le bande della tecnologia 3G che quelle della tecnologia 2G.



Per approfondimenti tecnici consulta le allegate schede di prodotto del fornitore o accedi ai seguenti indirizzi:

<http://www.huaweidevice.com.eg/Product-Description/Data-cards-K4605.php>

<http://www.huaweidevice.com.eg/Product-Description/Data-cards-E372.php>

E372u Brief Introduction V2.0

Highlights

- Swiftest Surfing Speed
- Support DC-HSPA+/HSPA+/UMTS/
EDGE/GPRS/GSM multi-type network

Positioning

Focus on high tier business market.
Providing high speed data service.

Price indication

**Notes: For exact price, please apply
from Regional Business Mgmt Dept.**

Photos

Standard photo (Top: Silver gray)



Specifications

Chip platform	MDM 8220
Form	USB Stick
Operating frequency(3G)	DC-HSPA+/HSPA+/UMTS 2100/1900/900/850MHz
Operating frequency(2G)	EDGE/GPRS/GSM 850/900/1800/1900MHz
Speed	Downlink: DC-HSPA+ Dual carrier 42Mbps (MIMO+64QAM single carrier 42Mbps ready) Uplink: 5.76Mbps (11Mbps ready)
Interface	USB 2.0 high speed
Dimensions	90mm x 28mm x 15 mm
Weight	<40g
Receive Diversity	DC-HSPA+/HSPA+/UMTS 2100/1900/900/850MHz
Micro SD card slot	Support (up to 32GB)
External Antenna interface	External antenna interface
Equalizer	Support
New feature	■ Downlink: DC-HSPA+ dual carrier 42Mbps; ■ Downlink: MIMO+64QAM single carrier 42Mbps (ready) ; ■ Uplink: 16QAM 11Mbps (ready) ;
OS	Windows 2000 SP4, Windows XP SP3, Windows Vista SP2; Windows Vista, Windows 7 Mac OS X 10.4,10.5,10.6 with latest upgrades

Linux: Ubuntu 8.10/9.04/7.10, openSuse 11.1/11.0/10.3, Fedora 10/9/7, Debian 5.0/4.0, Xandros 4.2, Linpus 1.0.15E, Mandriva 2009.1/2008.1, Red Flag 7.0/6.0(not standard, OR needed)

Standard configuration

Standard Hardware items	Flash 128M, package C, Quick Start
Applications for free Firmware (Windows、Mac、Linux)	Simlock, QoS, Call Enable, Service Domain, Search Mode, Enable PNP (PNP not supportive on Linux OS)
Standard Applications Dashboard (Windows、Mac、Linux)	Dial-up, Statistics, status bar, Network Searching and Registration, SMS, Phonebook, Diagnosis, PIN management
Applications for free Dashboard (Windows)	User Manual, Logo, Shortcut icons, language, Network name of the operator, Skin color, APN, Software name, IE Link Icon, Dynamic APN, Roaming Indication, NDIS
Applications for free Dashboard (Mac)	User Manual, Logo, Shortcut icons, language, Network name of the operator, APN, Software name, Dynamic APN, Roaming Indication
Applications for free Dashboard (Linux)	User Manual, Logo, Shortcut icons, language, Network name of the operator, APN, Software name, Dynamic APN, Roaming Indication

Charged configuration

Applications for charge (Windows)	On-line update, CBS, STK, Diagnosis(enhanced), WiFi
Applications for charge (Mac)	On-line update
Applications for charge (Linux)	NA
Hardware for charge	package A/B/D
Accessories	Lanyard, Micro SD card, USB cable, D105

Launch time

Test sample	DC-HSPA+ 2100/850MHz	23 rd ,Sep.,2010	<ul style="list-style-type: none">■ Support for DC-HSPA+ in Band W2100/850 CS■ Support for HSPA W2100/1900/900/850 CS■ Support for EDGE /GPRS/GSM1900/1800/900/850 CS
Commercial Launch	DC-HSPA+ 2100/1900/850MHz	20 th ,Nov.,2010	<ul style="list-style-type: none">■ Added supporting for DC-HSPA+ in Band2(W1900) FC
Mass production	DC-HSPA+ 2100/1900/850MHz	30 th ,Dec.,2010	<ul style="list-style-type: none">■ Mass production supports DC-HSPA+ 2100/1900/850MHz only;■ DC-HSPA+ in band 900MHz would be available at 2011, Q1.

CE/GCF/RoHs certification ok

FCC/PTCRB certification Nov, 2010

Note New features which would be available in 2011, Q1:

- Downlink: Single carrier MIMO+64QAM;
- Uplink: 16QAM 11Mbps;
- QICE;

K4605 Brief Introduction V1.0

Highlights

- Swiftest Surfing Speed
- Support DC-HSPA+/HSPA+/UMTS/EDGE /GPRS /GSM multi-type network
- VDF ID

Positioning

- Focus on high tier business market.
- Providing high speed data service.

Price indication

\$~\$

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Dimensions	91mm x 28mm x 14.3 mm
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Receive Diversity	DC-HSPA+/HSPA+/UMTS 2100/1900/900/850MHz
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Equalizer	Support



- New feature**
 - Downlink: DC-HSPA+ dual carrier 42Mbps;
 - Downlink: MIMO+64QAM single carrier 42Mbps (ready) ;
 - Uplink: 16QAM 11Mbps (ready) ;
- OS**
 - Windows XP SP3, Windows Vista SP2;
 - Windows Vista, Windows 7
 - Mac OS X 10.5,10.6 with latest upgrades
 - Linux: Ubuntu 8.10/9.04/7.10, openSuse 11.1/11.0/10.3, Fedora 10/9/7, Debian 5.0/4.0, Xandros 4.2,Linpus 1.0.15E,Mandriva 2009.1/2008.1,Red Flag 7.0/6.0(not standard, OR needed)

Standard configuration

- VDF Dashboard

Launch time

Test Sample	K4605	Ready
Commercial Launch	K4605	Ready
Mass Production	K4605	Ready
CE/GCF/RoHS certification	Ready	