

Air Live WMU-6500FS

Engineering Test Report

AirLive Test Team---HD Throughput Measurement and Compatibility Test

WMU-6500FS

Product Model	WMU6500FS
Tester	Steven
Test Date	2007/03/07

● Purpose

Test the DUT's of compatibility test on Hard Disk Drive by using DU Meter utility.

● Setup

- **DUT (Device Under Test):**
\$Model number: **WMU6500FS**
LAN port IP Address: 192.168.75.2
WLAN port IP Address: 192.168.75.2
- **LAN #1:**
IP Address: 192.168.75.185
CPU: Pentium M 1.5 GHz(Centrino)
- **Target File:**
File: test.zip
Size: 1GB
- RAM: 768 MB
OS: Windows XP Pro
Wireless: Intel Pro Wireless 2200BG
DU Meter :v3.05 Build 148

● Performance Measurement Procedure

- Test environment: Shielding box.
 - a. Thermometer: 32°C
 - b. Humidity: 38~40%
- LAN-to-LAN Write/Read Throughput Measurement
 1. Connect LAN #1 to the LAN port of DUT.
 2. Execute PING command at LAN #1 to monitor whether the connection with DUT is still alive.
 3. At LAN #1, executes FTP client to connect to the FTP server for file transfer.
 4. At LAN #1, get/put the target file from/to the FTP Server for five times by using FTP client utility.
 5. Calculate the average transmission speed.
 6. Test environment: open room.
 - a. Thermometer: 26°C
 - b. Humidity: 40~45%
 7. Hard Disk Drive:
 - √ WD WD800JB 80GB ATA133
 - √ MAXTOR 6L080P0 80GB ATA133
 - √ HITACHI HDS728080PLAT20 80GB ATA133
 - √ WD WD800JD 80GB ATAI
 - √ MAXTOR 6L080M0 80GB SATAII
 - √ HITACHI HDS728080PLA380 80GB SATAII
 - √ SEAGATE ST3750640AS 750GB SATAII
 8. USB Storage Device::
 - √ Transcend JetFlash 512MB
 - √ Zynet JetFlash 1024MB
 - √ Apacer Handy Steno/I-Simple 2G
 - √ UMAX Apus Elite 512MB
 - √ KINGMAX Super Stick 512MB
 - √ KINGSTON DataTraveler/DTI 1G
 - √ RIDATA EZdrive ID15 mini spin 1G
 - √ LAVOD LFS-130 256MB
 - √ SAMSUNG MP0402H 40G
 - √ WD WD400VB-75HDT0 40G

● **Performance Target Values**

Hard Disk Drive	Target Performance Value		Pass
	Write Average (Mbps)	Read Average (Mbps)	
WD WD800JD 80GB ATA133	40	43	Better than the target value
MAXTOR 6L080P0 80GB ATA133			
HITACHI HDS728080PLAT20 80GB ATA133			
WD WD800JB 80GB SATAII			
MAXTOR 6L080M0 80GB SATAII			
HITACHI HDS728080PLA380 80GB SATAII			
SEAGATE ST3750640AS 750GB SATAII			

USB Storage Device	Target Performance Value		Pass
	Write Average (Mbps)	Read Average (Mbps)	
Transcend JetFlash 512MB	16	57	Better than the target value
Zynet JetFlash 1GB			
Apacer Handy Steno AH320/I-Simple 2GB			
RIDATA EZdrive ID15 mini spin 1GB			
LAVOD LFS-130 256MB			
UMAX APus Elite 512MB			
KINGSTON DataTraveler/DTI 1GB			
KINGMAX Super Stick 512MB	21	57	
SAMSUNG MP0402H 40GB			
WD WD400VB-75HDT0 40GB			

● Performance Measurement Results

Hard Disk Drive (Wired)

HD	Write Average (Mbps)	Read Average (Mbps)
WD WD800JB 80GB ATA133	44.42	58.24
MAXTOR 6L080P0 80GB ATA133	43.65	50.56
HITACHI HDS728080PLAT20 80GB ATA133	44.81	58.22
WD WD800JD 80GB ATAII	44.14	50.30
MAXTOR 6L080M0 80GB SATAII	44.32	50.48
HITACHI HDS728080PLA380 80GB SATAII	44.80	58.36
SEAGATE ST3750640AS 750GB SATAII	25.96	30.04

USB Storage Device (Wired)

Storage	Write Average (Mbps)	Read Average (Mbps)
Transcend JetFlash 512MB	26.32	58.28
Zynet JetFlash 1GB	16.84	59.17
Apacer Handy Steno AH320/I-Simple 2GB	14.42	57.38
RIDATA EZdrive ID15 mini spin 1GB	6.82	57.99
LAVOD LFS-130 256MB	19.19	58.12
UMAX APlus Elite 512MB	17.64	58.13
KINGSTON DataTraveler/DTI 1GB	15.95	58.78
Samsung MP0402H 40GB	22.95	58.25
WD WD400VB-75HDT0 40GB	16.82	57.48