

Power Over eSATA vs Onboard Built-in USB 2.0 Performance Comparison Charts

Prepared & Tested by: Koutech Technical Support Department

Updated on: September 23, 2009

1. Desktop Computer Test System Configurations

- Intel DG43NB Motherboard
- 2GB of RAM
- Intel Celeron E1200 CPU @ 1.60 GHz
- Western Digital Caviar Blue 3.5" 500GB x (2) units
- Koutech IO-PESU220
- Koutech IO-EEC320 External Enclosure
- Koutech CBL-PSA512V-100 Power Over eSATA cable
- Windows XP Pro SP2
- HDD Tune 2.55

Transfer Rate (Mbyte/sec)	Built-in USB (*1)	PESU220 USB (*2)	PESU220 Power Over eSATA (*3)
Minimum	0.3	15.1	39.1
Maximum	31.6	31.1	76.8
Average	14.8	30.6	61.5

*1 Built-in USB -> IO-EEC320 (via USB) -> WD 500GB drive

*2 PESU220 -> IO-EEC320 (via USB) -> WD 500GB drive

*3 PESU220 -> CBL-PSA512V-100 (via SATA) -> WD 500GB drive

2. Laptop Computer Test System Configurations

- Dell Inspiron 1525 Laptop Computer
- 2GB of RAM
- Intel Core 2 Duo T5750 CPU @ 2.00 GHz
- Samsung 2.5" 320GB drive
- Koutech IO-ECSU120
- Koutech IO-EESU220 External Enclosure
- Koutech CBL-PSA512V-100 Power Over eSATA cable
- Windows Vista 32-bit SP1
- HDD Tune 2.55

Transfer Rate (Mbyte/sec)	Built-in USB (*1)	ECSU120 USB (*2)	ECSU120 Power Over eSATA (*3)
Minimum	23.9	26	34.9
Maximum	28.2	29.9	59.1
Average	25.1	28.6	49.1

*1 Built-in USB -> IO-EESU220 (via USB) -> Seagate 320GB drive

*2 ECSU120 -> IO-EESU220 (via USB) -> Seagate 320GB drive

*3 ECSU120 -> CBL-PSA512V-100 (via SATA) -> Seagate 320GB drive