White Paper
Energy Consumption ESPRIMO D7010

Version 1.3

In order to strengthen the leadership in implementing European environmental protection regulations, Fujitsu provides all important energy information on its products. The energy efficiency test reports required by Commission Regulation (EU) No 617/2013 are publicly available. These reports have to be done with maximum configurations which are not used by the majority of customers. To give more practical and usable values, Fujitsu provides additional information on power consumption for standard configurations based on ENERGY STAR® 8 calculation.

Fujitsu is also making a significant effort to reduce the energy consumption in data centers by delivering highest energy efficiency with PRIMERGY servers. To underline these efforts Fujitsu joined the Green Grid and Climate Savers Computing initiatives, and publishes SPECpower benchmark results for PRIMERGY servers.

A. Web addresses for information on Energy, Environment and End-of-life treatment

Fujitsu supports important information for energy, environment and End-of-life treatments on the basis of European directives and beyond. Listed below are web addresses pertaining to this topic:
Energy reports: http://globalsp.ts.fujitsu.com/sites/certificates/default.aspx
Energy: http://www.fujitsu.com/fts/energy
Environment: http://www.fujitsu.com/fts/green
End-of-life treatment: http://www.fujitsu.com/fts/recycling

B. Power Consumption and Typical Energy Consumption (ETEC) for Clients for typical standard configuration

Typical Configuration	3,5" HDD, 1x 8 GB, Slim ODD, Windows® 10™	SSD 256 GB M.2, 1x 8 GB, Slim ODD, Windows® 10™	SSD 512 GB M.2, 2x 8 GB, Slim ODD, Windows® 10™
Related Processor for power consumption	Intel® Core™ i5-10600 processor	Intel® Core™ i5-10600 processor	Intel® Core™ i7-10700 processor
Power consumption notes	Power supply efficiency: 80Plus GOLD	Power supply efficiency: 80Plus PLATINUM	Power supply efficiency: 80Plus PLATINUM
Power consumption: Maximum (S0*, running appl., CD in use) 1)	48.54 W	51.02 W	55.7 W
Power consumption: short Idle (Pshort idle) (S0, running OS, Idle-mode)	13.4 W	7.11 W	7.39 W
Power consumption: long Idle (Plong idle) (S0, running OS, Idle-mode)	12.9 W	5.72 W	5.88 W
Power consumption: Standby (Psleep) (ACPI status S3*, sleep, energy saving mode, WOL enabled)	0.8 W	0.78 W	0.84 W
Power consumption: Minimum (ACPI status S5*, soft off, WOL enabled)	0.65 W	0.57 W	0.57 W
Power consumption: Minimum (Poff) (ACPI status S5, soft off, wake up power button) 2)	0.25 W	0.21 W	0.21 W
Typical Energy Consumption (ETEC), ENERGY STAR® based, conventional mode, 3)	50.0 kWh/year	27.0 kWh/year	28.2 kWh/year
Heat dissipation, WOL enabled, conventional mode (kBTU, 1 W = 3.4121 BTU/h)	170.6 kBTU/year	92.3 kBTU/year	96.1 kBTU/year
Heat dissipation, WOL enabled, conventional mode (MJ, 1 W = 3.6 kJ/h)	180.0 kBTU/year	97.4 MJ/year	101.4 kBTU/year

1) The Maximum Mode is measured according to SYSTEST 32 of Fujitsu for PCs. This value gives you an indication of maximum power consumption possible and is for information only, i.e. not to be used in any ETEC calculation
2) Shipment conditions ex-factory
3) Formula used for ETEC calculation, Desktop (DT), All in One (AIO), Thin client and Notebook (NB)
ETEC = 8760/1000 x (Poff x Toff + Psleep x Tsleep + Plong idle x Tlong idle + Pshort idle x Tshort idle)

Mode weighting	Conventional DT, AIO	Conventional NB	Full Network Connectivity / Full Capability NB	Thin Client
T off	15 %	25 %	25 %	45 %
T sleep	45 %	35 %	45 %	5 %
T long idle	10 %	10 %	5 %	15 %
T short idle	30 %	30 %	25 %	35 %

Fujitsu products, solutions & services

In addition to FUJITSU Desktop ESPRIMO D7010, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

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More information

Learn more about FUJITSU Desktop ESPRIMO D7010, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/emeia/ESPRIMO

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment



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