

**Samsung S SE31-JT04DE Intel® Core™ i3 i3-370M 43,9 cm (17.3")
HD+ 4 GB DDR3-SDRAM 640 GB NVIDIA® GeForce® 310M
Windows 7 Home Premium Black, Red, Silver**



Brand : Samsung

Product family: S

Article code: NP-SE31-JT04DE

Product name : SE31-JT04DE

Samsung S SE31-JT04DE. Processor family: Intel® Core™ i3, Processor model: i3-370M, Processor frequency: 2,4 GHz. Display diagonal: 43,9 cm (17.3"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 640 GB, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics, Discrete graphics card model: NVIDIA® GeForce® 310M. Operating system installed: Windows 7 Home Premium. Product color: Black, Red, Silver. Weight: 2,84 kg

Design		Keyboard	
Product color *	Black, Red, Silver	Full-size keyboard	✓
Display		Software	
Display diagonal *	43,9 cm (17.3")	Operating system architecture	64-bit
Display resolution *	1600 x 900 pixels	Drivers included	✓
Touchscreen *	✗	Trial software	Microsoft Office 2007, McAfee Virus Scan
HD type	HD+	Operating system installed *	Windows 7 Home Premium
LED backlight	✓	Bundled software	Samsung Recovery Solution IV, Samsung Support Center, Easy Battery Manager, Easy Display Manager, Easy Network Manager, Easy SpeedUp Manager, Samsung Update Plus, Adobe Acrobat Reader
Native aspect ratio	16:9		
Display brightness	220 cd/m²		
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✗
Processor family *	Intel® Core™ i3	Intel® My WiFi Technology (Intel® MWT)	✗
Processor generation	Intel® Core™ i3	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor model *	i3-370M	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	✗
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2,4 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
System bus rate	2,5 GT/s	Intel Clear Video Technology	✓
Processor cache	3 MB	Intel® InTru™ 3D Technology	✗
Processor cache type	Smart Cache	Intel® Insider™	✗
Processor socket	Socket 988	Intel® Quick Sync Video Technology	✗
Processor lithography	32 nm	Intel Flex Memory Access	✓
Processor operating modes	64-bit	Intel® Smart Cache	✓
Processor series	Intel Core i3-300 Mobile Series	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor codename	Arrandale	Intel Trusted Execution Technology	✗
Bus type	DMI	Intel Enhanced Halt State	✓
FSB Parity	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	K0	Intel Demand Based Switching	✗
Thermal Design Power (TDP)	35 W		
Tjunction	90 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		
PCI Express configurations	1x16		
Number of Processing Die Transistors	382 M		
Processing Die size	81 mm²		
CPU multiplier (bus/core ratio)	18		
ECC supported by processor	✗		

Memory		Processor special features	
Internal memory *	4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory type	DDR3-SDRAM	Intel 64	✓
Memory clock speed	1066 MHz	Execute Disable Bit	✓
Memory layout (slots x size)	2 x 2 GB	Idle States	✓
Memory slots	2x SO-DIMM	Thermal Monitoring Technologies	✓
Maximum internal memory *	4 GB	Processor package size	rPGA 37.5x 37.5, BGA 34x28
Storage		Supported instruction sets	SSE4.1, SSE4.2
Total storage capacity *	640 GB	Processor code	SLBUK
Number of HDDs installed	1	Physical Address Extension (PAE)	✓
HDD capacity	640 GB	Physical Address Extension (PAE)	36 bit
HDD interface	SATA	CPU configuration (max)	1
HDD speed	5400 RPM	Embedded options available	✗
Optical drive type *	DVD Super Multi	Graphics & IMC lithography	45 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Compatible memory cards	MMC, SD, SDHC	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Dual Display Capable Technology	✓
Discrete graphics card model *	NVIDIA® GeForce® 310M	Intel FDI Technology	✓
On-board graphics card *	✓	Intel Rapid Storage Technology	✗
Discrete graphics card *	✓	Intel Fast Memory Access	✓
On-board graphics card family	Intel® HD Graphics	Processor ARK ID	49020
On-board graphics card model *	Intel® HD Graphics	Conflict-Free processor	✗
On-board graphics card base frequency	500 MHz	Battery	
On-board graphics card dynamic frequency (max)	667 MHz	Number of battery cells	6
Maximum resolution	2048 x 1536 pixels	Battery life (max)	4,4 h
Audio		Power	
Audio system	HD	DC-in jack	✓
Number of built-in speakers	2	Security	
Speaker power	1,5 W	Cable lock slot	✓
Built-in subwoofer	✗	Cable lock slot type	Kensington
Camera		Fingerprint reader	✗
Front camera resolution (numeric)	0,3 MP	Trusted Platform Module (TPM)	✗
Network		Password protection type	HDD, Supervisor, User
Wi-Fi	✓	Certificates	
Ethernet LAN	✓	Wi-Fi certified	✓
Bluetooth	✗	Weight & dimensions	
WWAN	Not installed	Width	411,4 mm
Data network	Not supported	Depth	272,8 mm
Cabling technology	10/100/1000Base-T(X)	Height (front)	3,2 cm
Ports & interfaces		Height (rear)	3,98 cm
USB 2.0 ports quantity *	3	Weight *	2,84 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
DVI port	✗	AC adapter included *	✓
VGA (D-Sub) ports quantity	1	Bag included	✗
Headphone outputs	1	Handheld remote control	✗
S/PDIF out port	✗	Other features	
Microphone in	✓	Infrared data port	✗
Docking connector	✗	Graphics card family	NVIDIA
ExpressCard slot	✗	3D	✗
CardBus PCMCIA slot type	✗	Type	PC
SmartCard slot	✗	Internal modem	✗
TV-out	✗		
Performance			
Motherboard chipset	Intel® HM55 Express		

Keyboard		Other features	
Pointing device	Touchpad + Scroll zone	Intel Turbo Memory	0 GB



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