



# CVE-2019-18619

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## Summary

<b>CVE</b>	CVE-2019-18619
<b>State</b>	PUBLIC
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2020-07-22 14:15:00 UTC
<b>Updated</b>	2020-07-30 19:28:00 UTC
<b>Description</b>	Incorrect parameter validation in the synaTee component of Synaptics WBF drivers using an SGX enclave (all versions pric

## Risk And Classification

### Problem Types: CWE-763

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 13t-ah100</a>	-	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 13t-ah100</a>	-	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 13t-ah100 Firmware</a>	All	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 13t-ah100 Firmware</a>	All	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 13t-aq100</a>	-	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 13t-aq100</a>	-	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 13t-aq100 Firmware</a>	All	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 13t-aq100 Firmware</a>	All	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 17t-bw000</a>	-	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 17t-bw000</a>	-	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 17t-bw000 Firmware</a>	All	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 17t-bw000 Firmware</a>	All	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 17t-ce000</a>	-	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 17t-ce000</a>	-	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 17t-ce000 Firmware</a>	All	All	All	All
Operating System	<a href="#">Hp</a>	<a href="#">Envy - 17t-ce000 Firmware</a>	All	All	All	All
Hardware	<a href="#">Hp</a>	<a href="#">Envy - 17t-ce100</a>	-	All	All	All

Hardware	Hp	Envy - 17t-ce100	-	All	All	All
Operating System	Hp	Envy - 17t-ce100 Firmware	All	All	All	All
Operating System	Hp	Envy - 17t-ce100 Firmware	All	All	All	All
Hardware	Hp	Envy 13-ah0xxx	-	All	All	All
Hardware	Hp	Envy 13-ah0xxx	-	All	All	All
Operating System	Hp	Envy 13-ah0xxx Firmware	All	All	All	All
Operating System	Hp	Envy 13-ah0xxx Firmware	All	All	All	All
Hardware	Hp	Envy 13-ah1xxx	-	All	All	All
Hardware	Hp	Envy 13-ah1xxx	-	All	All	All
Operating System	Hp	Envy 13-ah1xxx Firmware	All	All	All	All
Operating System	Hp	Envy 13-ah1xxx Firmware	All	All	All	All
Hardware	Hp	Envy 13-aq0xxx	-	All	All	All
Hardware	Hp	Envy 13-aq0xxx	-	All	All	All
Operating System	Hp	Envy 13-aq0xxx Firmware	All	All	All	All
Operating System	Hp	Envy 13-aq0xxx Firmware	All	All	All	All
Hardware	Hp	Envy 13-aq1xxx	-	All	All	All
Hardware	Hp	Envy 13-aq1xxx	-	All	All	All
Operating System	Hp	Envy 13-aq1xxx Firmware	All	All	All	All
Operating System	Hp	Envy 13-aq1xxx Firmware	All	All	All	All
Hardware	Hp	Envy 15-cn0xxx X360	-	All	All	All
Hardware	Hp	Envy 15-cn0xxx X360	-	All	All	All
Operating System	Hp	Envy 15-cn0xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15-cn0xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15-cn1xxx X360	-	All	All	All
Hardware	Hp	Envy 15-cn1xxx X360	-	All	All	All
Operating System	Hp	Envy 15-cn1xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15-cn1xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15-dr0xxx X360	-	All	All	All
Hardware	Hp	Envy 15-dr0xxx X360	-	All	All	All
Hardware	Hp	Envy 15-dr0xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr0xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr0xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15-dr0xxx X360 Validity Fps	-	All	All	All
Hardware	Hp	Envy 15-dr0xxx X360 Validity Fps	-	All	All	All

Operating System	Hp	Envy 15-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Hardware	Hp	Envy 15-dr1xxx X360	-	All	All	All
Hardware	Hp	Envy 15-dr1xxx X360	-	All	All	All
Hardware	Hp	Envy 15-dr1xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15-dr1xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr1xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr1xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15-dr1xxx X360 Validity Fps	-	All	All	All
Hardware	Hp	Envy 15-dr1xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15-dr1xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15-dr1xxx X360 Validity Fps Firmware	All	All	All	All
Hardware	Hp	Envy 15m-cn0xxx X360	-	All	All	All
Hardware	Hp	Envy 15m-cn0xxx X360	-	All	All	All
Operating System	Hp	Envy 15m-cn0xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15m-cn0xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15m-dr0xxx X360	-	All	All	All
Hardware	Hp	Envy 15m-dr0xxx X360	-	All	All	All
Hardware	Hp	Envy 15m-dr0xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15m-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15m-dr0xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15m-dr0xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15m-dr0xxx X360 Validity Fps	-	All	All	All
Hardware	Hp	Envy 15m-dr0xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15m-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15m-dr0xxx X360 Validity Fps Firmware	All	All	All	All
Hardware	Hp	Envy 15m-dr1xxx X360	-	All	All	All
Hardware	Hp	Envy 15m-dr1xxx X360	-	All	All	All
Hardware	Hp	Envy 15m-dr1xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15m-dr1xxx X360 Validity Fps Firmware	All	All	All	All
Operating System	Hp	Envy 15m-dr1xxx X360 Firmware	All	All	All	All
Operating System	Hp	Envy 15m-dr1xxx X360 Firmware	All	All	All	All
Hardware	Hp	Envy 15m-dr1xxx X360 Validity Fps	-	All	All	All
Hardware	Hp	Envy 15m-dr1xxx X360 Validity Fps	-	All	All	All
Operating System	Hp	Envy 15m-dr1xxx X360 Validity Fps Firmware	All	All	All	All

Operating System	Hp	<a href="#">Envy 15m-dr1xxx X360 Validity Fps Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17-bw0xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17-bw0xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17-bw0xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17-bw0xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17-ce0xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17-ce0xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17-ce0xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17-ce0xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17-ce1xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17-ce1xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17-ce1xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17-ce1xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17m-bw0xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17m-bw0xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17m-bw0xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17m-bw0xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17m-ce0xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17m-ce0xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17m-ce0xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17m-ce0xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy 17m-ce1xxx</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy 17m-ce1xxx</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy 17m-ce1xxx Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy 17m-ce1xxx Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-cn000</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-cn000</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-cn000 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-cn000 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr000</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr000</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr000 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr000 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps</a>	-	All	All	All

Hardware	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr000 Validity Fps Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr100</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr100</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr100 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr100 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps</a>	-	All	All	All
Hardware	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps</a>	-	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Envy X360 - 15t-dr100 Validity Fps Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-cd1xxx X360</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-cd1xxx X360</a>	-	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-cd1xxx X360 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-cd1xxx X360 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-cd2xxx X360</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-cd2xxx X360</a>	-	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-cd2xxx X360 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-cd2xxx X360 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-dh0xxx X360</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 14-dh0xxx X360</a>	-	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-dh0xxx X360 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Pavilion 14-dh0xxx X360 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 14m-cd0xxx X360</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 14m-cd0xxx X360</a>	-	All	All	All
Operating System	Hp	<a href="#">Pavilion 14m-cd0xxx X360 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Pavilion 14m-cd0xxx X360 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 14m-dh0xxx X360</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 14m-dh0xxx X360</a>	-	All	All	All
Operating System	Hp	<a href="#">Pavilion 14m-dh0xxx X360 Firmware</a>	All	All	All	All
Operating System	Hp	<a href="#">Pavilion 14m-dh0xxx X360 Firmware</a>	All	All	All	All
Hardware	Hp	<a href="#">Pavilion 15</a>	-	All	All	All
Hardware	Hp	<a href="#">Pavilion 15</a>	-	All	All	All

Operating System	Hp	Pavilion 15 Firmware	All	All	All	All
Operating System	Hp	Pavilion 15 Firmware	All	All	All	All
Hardware	Hp	Pavilion X360 - 14t-cd000	-	All	All	All
Hardware	Hp	Pavilion X360 - 14t-cd000	-	All	All	All
Operating System	Hp	Pavilion X360 - 14t-cd000 Firmware	All	All	All	All
Operating System	Hp	Pavilion X360 - 14t-cd000 Firmware	All	All	All	All
Hardware	Hp	Pavilion X360 - 15t-dq000	-	All	All	All
Hardware	Hp	Pavilion X360 - 15t-dq000	-	All	All	All
Operating System	Hp	Pavilion X360 - 15t-dq000 Firmware	All	All	All	All
Operating System	Hp	Pavilion X360 - 15t-dq000 Firmware	All	All	All	All
Hardware	Hp	Pavilion X360 - 15t-dq100	-	All	All	All
Hardware	Hp	Pavilion X360 - 15t-dq100	-	All	All	All
Operating System	Hp	Pavilion X360 - 15t-dq100 Firmware	All	All	All	All
Operating System	Hp	Pavilion X360 - 15t-dq100 Firmware	All	All	All	All
Hardware	Hp	Pavilion X360 14t-cd100	-	All	All	All
Hardware	Hp	Pavilion X360 14t-cd100	-	All	All	All
Operating System	Hp	Pavilion X360 14t-cd100 Firmware	All	All	All	All
Operating System	Hp	Pavilion X360 14t-cd100 Firmware	All	All	All	All
Hardware	Hp	Pavilion X360 14t-dh000	-	All	All	All
Hardware	Hp	Pavilion X360 14t-dh000	-	All	All	All
Operating System	Hp	Pavilion X360 14t-dh000 Firmware	All	All	All	All
Operating System	Hp	Pavilion X360 14t-dh000 Firmware	All	All	All	All
Hardware	Hp	Spectre X360	-	All	All	All
Hardware	Hp	Spectre X360	-	All	All	All
Operating System	Hp	Spectre X360 Firmware	All	All	All	All
Operating System	Hp	Spectre X360 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A475	-	All	All	All
Hardware	Lenovo	Thinkpad A475	-	All	All	All
Operating System	Lenovo	Thinkpad A475 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A475 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad A485	-	All	All	All
Hardware	Lenovo	Thinkpad A485	-	All	All	All
Operating System	Lenovo	Thinkpad A485 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad A485 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad 25	-	All	All	All
Hardware	Lenovo	Thinkpad 25	-	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad z5</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad 25 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad 25 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad A275</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad A275</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad A275 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad A275 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E485 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E580 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E585 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E590</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad E590</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E590 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad E590 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480</a>	-	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad L580 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Gen 2</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Gen 2</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Gen 2 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P1 Gen 2 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P43s Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P50 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20hx Firmware</a>	All	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51s 20kx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P51 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P52 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P53 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P70</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P70</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P70 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P70 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 20hx Firmware</a>	All	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P71 2018 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P72 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad P73 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad R590 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S1 3rd Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S3</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad S3</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S3 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad S3 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T25 20k7 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460p</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460p</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460p Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460p Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460s</a>	-	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T460s Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470p</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470p</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470p Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470p Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470s 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T470 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s</a>	-	All	All	All

Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T480 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490s Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T490 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T57020jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T570 20hx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T580</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T580</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T580 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T580 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T590</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad T590</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T590 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad T590 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Carbon</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Carbon</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Carbon 20hx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Carbon 20hx Firmware</a>	All	All	All	All

Operating System	Lenovo	Thinkpad X1 Carbon 201x Firmware	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20kx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20kx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20hx	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20hx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20hx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20hx Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20kx	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Carbon 20kx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20kx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Carbon 20kx Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme 2nd	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Extreme 2nd	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme 2nd Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme 2nd Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Extreme Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet 20jx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet 20jx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet 20jx	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Tablet 20jx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet 20jx Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad X1 Tablet 20jx Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga	-	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga 20jx	-	All	All	All
Operating System	Lenovo	Thinkpad X1 Yoga 20jx Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad X1 Yoga 3rd Gen	-	All	All	All

Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 3rd Gen</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 3rd Gen Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 3rd Gen Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 4th Gen</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 4th Gen</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 4th Gen Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 4th Gen Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 20jx</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 20jx</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 20jx Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X1 Yoga 20jx Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X270</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X270</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X270 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X270 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X280</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X280</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X280 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X280 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X380 Yoga</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X380 Yoga</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X380 Yoga Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X380 Yoga Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Yoga</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Yoga</a>	-	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Yoga Firmware</a>	All	All	All	All
Operating System	<a href="#">Lenovo</a>	<a href="#">Thinkpad X390 Yoga Firmware</a>	All	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260</a>	-	All	All	All
Hardware	<a href="#">Lenovo</a>	<a href="#">Thinkpad Yoga 260</a>	-	All	All	All

Operating System	Lenovo	Thinkpad Yoga 260 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad Yoga 260 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad Yoga 370	-	All	All	All
Hardware	Lenovo	Thinkpad Yoga 370	-	All	All	All
Operating System	Lenovo	Thinkpad Yoga 370 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad Yoga 370 Firmware	All	All	All	All
Hardware	Lenovo	Thinkpad Yoga S1	-	All	All	All
Hardware	Lenovo	Thinkpad Yoga S1	-	All	All	All
Operating System	Lenovo	Thinkpad Yoga S1 Firmware	All	All	All	All
Operating System	Lenovo	Thinkpad Yoga S1 Firmware	All	All	All	All
Hardware	Synaptics	Vfs75xx	-	All	All	All
Hardware	Synaptics	Vfs75xx	-	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.225.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.318.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.3530.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.524.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.3.3539.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.10.1093	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.11.1106	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.15.1102	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.2734.1050	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.2811.1050	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.3.1116	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.38.1058	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.8.1096	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.6.23.1000	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.14.1108	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.32.1104	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.42.1107	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.225.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.318.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.3530.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.2.524.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.3.3539.26	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.10.1093	All	All	All
Operatina Svstem	Svnaptics	Vfs75xx Firmware	5.5.11.1106	All	All	All

Operating System	Synaptics	Vfs75xx Firmware	5.5.15.1102	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.2734.1050	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.2811.1050	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.3.1116	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.38.1058	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.5.8.1096	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	5.6.23.1000	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.14.1108	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.32.1104	All	All	All
Operating System	Synaptics	Vfs75xx Firmware	6.0.42.1107	All	All	All

## References

Reference	Source	Link
Blog   Synaptics	MISC	<a href="http://www.synaptics.com">www.synaptics.com</a>
SYSSEC: Analysis of TEE Software	MISC	<a href="http://www.syssec.wiwi.uni-due.de">www.syssec.wiwi.uni-due.de</a>
HPSBHF03675 rev. 1 - Synaptics® Fingerprint Drivers that use SGX   HP® Customer Support	MISC	<a href="http://support.hp.com">support.hp.com</a>
Synaptics Fingerprint Vulnerabilities - Lenovo Support US	MISC	<a href="http://support.lenovo.com">support.lenovo.com</a>
<a href="http://www.synaptics.com/sites/default/files/fingerprint-driver-SGX-security-brief-202...">www.synaptics.com/sites/default/files/fingerprint-driver-SGX-security-brief-202...</a>	CONFIRM	<a href="http://www.synaptics.com">www.synaptics.com</a>
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

[375625](#) Lenovo Synaptics Fingerprint Multiple Vulnerabilities (LEN-31372)

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