



Certificate No:
TAA000038U

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Personal Computer**

with type designation(s)
Thinkstation P360 Tiny Model 30FF

Issued to

Lenovo (United States) Inc
Morrisville, NC, USA

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature	B see note 1)
Humidity	B
Vibration	A
EMC	B
Enclosure	A

Issued at **Hamburg** on **2023-02-03**

This Certificate is valid until **2028-02-02**.

for **DNV**

DNV local unit: **Certification & Inspection Services**

Approval Engineer: **Didier Girardin**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2022-12

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Product description

Thinkstation P360 Tiny Model 30FF: P360 Tiny, 30FF(i3), P360 Tiny, 30FF(i5), P360 Tiny, 30FF(i7) ¹⁾

Power supply (voltage-sensing power supply):

170W; AC 100-240V, 2.5A, 50-60Hz,
230W; AC 100-240V, 2.5A, 50-60Hz

Note ¹⁾:

P360 Tiny W/i3 operational temperature range -25°C/70°C

P360 Tiny W/i5 operational temperature range +5°C /70°C

P360 Tiny W/i7 operational temperature range -25°C/70°C

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems

Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Each delivery to be provided with installation instruction or later approved version including safe distance to compass and communication cable shielded type

Type Approval documentation

See Annex

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339 August 2021

Compass Safe Distance & Acoustic Noise and Signals Measurement according to EN 60945:2002

Manufacturing Places

Hungary: Lenovo Manufacturing Hungary Kft.
HU-2225 Üllő, K-sped krt. 28. ULL5.ép.
VAT nr : 28790769-2-41
Hungary

China: Lenovo Information Products (Shenzhen) Co., Ltd
2F, 3F, 4F NO.1 Plant, Lenovo Innovation Park, Lidu Road,
Loucun Community, Xinhua Street, Guangming District ,
Shenzhen, China

Marking of product

- manufacturer name,
- model name (tested model identification)
- Serial number
- Power supply ratings
- Compass safe distance.

Alternatively, the minimum safe distance for fixed equipment may be given in the equipment manual, but portable equipment shall always be marked according to EN 60945 IEC:2002 Ch. 4.5.3

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

ANNEX

Hidden

- P360 Tiny Hardware Maintenance Manual First Edition dated April 2022 ²⁾
- Product Specifications ThinkStation P360 Tiny dated March 04 2022
- P360 Tiny User Guide First Edition (April 2022) ²⁾
- ThinkStation P360 Tiny Usage Notice PN: SF60H00529 First Edition (October 2022) ³⁾
- Drawing 0-00-Tiny8-All_Ass released day June-13-22

Notes:

- ²⁾ *Removing and installing hardware only in compliance with type approved components also as tested and listed below under sample arrangements*
- ³⁾ *Operating condition only within limits of tested environmental parameters (see note 1)*
- ⁴⁾ *P360 Tiny W/i7 sample 6780 is covered by present Certificate TAA000038U by including only one SSD arranged in the lower shaft. Upper SSD shaft remains not equipped.*

P360 Tiny W/i3
Sample 6778

P/N	Description	Qty
SB20N61265	MB Q670 P360	1
SA1G55237	Core i3-12100T	1
SA10J20181	170W Power Supply	1
SM30N76942	8GB DDR5	1
SM30N76948	8GB DDR5	1
SN30L21973	Intel I350-T4	1
SSS0L25196	512GB SSD	1
SSS0L24802	512GB SSD	1
	Win10 IoT 2021 LTSC	1
SM11K04734	Tiny P360 logo less Dust filter	1
SM50L24506	Liteon SM-8823 USB Mouse BLK-Red wheel	1
SS51C91739	L3-Shell ASM Tiny8 P360 chassis for w/HDD bkt kit,OEM,AVC	1

P360 Tiny W/i5
Sample 6785

P/N	Description	Qty
SB20N61265	MB Q670 P360	1
SA1G55232	Core i5-12500T	1
SA10J20181	170W Power Supply	1
M30N76846	16GB DDR5	1
SM30N76819	16GB DDR5	1
SBB1H05837	Nvidia T1000E 8GB	1
SSS0L24803	1TB SSD	1
SSS0L25197	1TB SSD	1
	Linux UBT	1
C10X18723	Mini DP to DP	1
SM11K04734	Tiny P360 logo less Dust filter	1
SM50L24506	Liteon SM-8823 USB Mouse BLK-Red wheel	1
SS51C91739	L3-Shell ASM Tiny8 P360 chassis for w/HDD bkt kit,OEM,AVC	

P360 Tiny W/i7
Sample 6780

P/N	Description	Qty
SB20N61265	MB Q670 P360	1
SSA1F38798	Core i7-12700T	1
SA11B49009	230W Power Supply	1
SM30N76847	32GB DDR5	1
SM30N76820	32GB DDR5	1
SBB1H05837	Nvidia T1000E 8GB	1
SSS0L24804	M.2 2280 PCIe 2TB Gen4	1
	Win10 IoT 2021 LTSC	1
SM11K04734	Tiny P360 logo less Dust filter	1
SM50L24506	Liteon SM-8823 USB Mouse BLK-Red wheel	1
SS51C91739	L3-Shell ASM Tiny8 P360 chassis for w/HDD bkt kit,OEM,AVC	1

The Workstation has been tested with three different configurations allowing various setups.