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Northern Micro Spirit Q370-AS SFF



CHASSIS - Chenbro PC710 Series

Dimensions (D x W x H): 395mm x 95mm x 325mm (15.5" x 2.7" x 12.8")

Drive Bays: External 5.25" x1, External 3.5" x1, Internal 3.5" x1, Internal 2.5" x1

PSU Form Factor: TFX

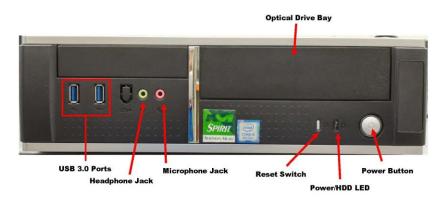
Indicators: Power Status, HDD Activity

Front Buttons: Power On / Off, System Reset, USB 3.0 x2, Headphone Jack, MIC Phone Jack

System Security: Padlock Loop, Kensington Slot Lock

Expansion Slots: 4, Low Profile

Metal Thickness: 0.8mm



Power Supply – Seasonic SS-300TGW

Total Continuous Power: 300W

Certification: 80Plus Gold Certification



MOTHERBOARD - Asus PRIME Q370M-C/CSM

CPU Compatibility: Intel® for 8th Generation Core™ Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron®,

14nm

Chipset: Intel® Q370

Memory: 4 x DIMM, Max. 64GB, DDR4 2666/2400/2133 MHz Non-ECC, Un-buffered Memory

Graphic: Integrated Graphics Processor- Intel® HD Graphics support

- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz

- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz

- Supports DisplayPort with max. resolution 4096 x 2304 @ 60 Hz

Maximum shared memory of 1024 MB (for iGPU exclusively)

Supports up to 3 displays simultaneously

Expansion Slots: 1 x PCle 3.0/2.0 x16

2 x PCle 3.0/2.0 x1

1 x PCI

Storage: 1x M.2 Socket 3, with M key, type 2242/2260/2280 storage devices support (both

SATA & PCIE mode)

1 x M.2 Socket 3, with M Key, type 2242/2260/2280 storage devices support (x4 PCIE

mode)

6 x SATA 6Gb/s port(s) Support Raid 0, 1, 5, 10

Intel® Optane™ Memory Ready

LAN: Intel® I219LM, 1 x Gigabit LAN Controller

Audio: Realtek® ALC887 8-Channel High Definition Audio CODEC *1

- Supports: Jack-detection, Front Panel Jack-retasking

USB Ports: Intel® Q370 Chipset:

4 x USB 3.1 Gen 2 port(s) (4 at back panel, , Type-A, 0 at mid-board)

Intel® Q370 Chipset:



4 x USB 3.1 Gen 1 port(s) (2 at mid-board)

Intel® Q370 Chipset:

4 x USB 2.0 port(s) (2 at back panel, , Type-A, 2 at mid-board)

Back I/O Ports: 1 x PS/2 keyboard (purple)

1 x PS/2 mouse (green)

1 x D-Sub

2 x DisplayPort

1 x HDMI

1 x LAN (RJ45) port(s) 4 x USB 3.1 Gen 2 Type-A

2 x USB 2.0

3 x Audio jack(s)

Internal I/O Ports

2 x USB 3.1 Gen 1(up to 5Gbps) connector(s) support(s) additional 4 USB 3.1 Gen 1

port(s)

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

1 x M.2 Socket 3 with M key, type 2242/2260/2280 storage devices support (SATA &

PCIE 3.0 x 4 mode)

1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (PCIE

mode only)

1 x LPT header

2 x COM port(s) connector(s)

6 x SATA 6Gb/s connector(s)

1 x CPU Fan connector(s) (1 x 4 -pin)

2 x Chassis Fan connector(s) (2 x 4 -pin)

1 x 24-pin EATX Power connector(s)

1 x 8-pin ATX 12V Power connector(s)

1 x Front panel audio connector(s) (AAFP)

1 x Internal speaker connector(s)

1 x System panel(s)

1 x Chassis Intrusion connector(s)

1 x M.2 Socket 1 with E key, type 2230 for Wi-Fi/BT devices support or PCIE/USB mode

1 x LPC Debug header

Security: TPM IC Onboard





Processor – Intel Core i5-8500

Intel VT-d:

Processor Number: i5-8500 Lithography: 14nm # of Cores: # of Threads: 6 Processor Base Frequency: 3.00 GHz Max Turbo Frequency: 4.10GHz Cache: 9MB SmartCache Bus Speed: 8GT/s DMI3 TDP: 65W Max Memory Size: 64GB Memory Types: DDR4-2666 ECC Memory Supported: No Processor Graphics: Intel UHD Graphics 630 Graphics Base Frequency: 350MHz Graphics Video Max Memory: 64GB 4K Support: Yes, at 60Hz Maximum Resolution: 4096 x 2304 @60Hz (DisplayPort) DirectX Support: 12 OpenGL Support: 4.5 # Displays Supported: Socket Supported: FCLGA1151 Intel Optane Support: Yes Intel Turbo Boost Technology: 2.0 Intel vPro Platform: Yes Intel Hyper-Threading: No Intel VT-x: Yes

Yes



Memory – Crucial 8GB DDR4 – 2400 UDIMM

Total Capacity: 16GB (8GB x 2)

Speed: 2400 MT/s

Spec: DDR4 PC4-19200, CL-17, Dual Ranked, x8 Based, Unbuffered, Non-ECC, 1.2V,

1024Meg x 64

Storage – Intel SSD 760p Series

Capacity: 256GB

Form Factor: M.2 2280

Interface: PCle NVMe 3.1 x4

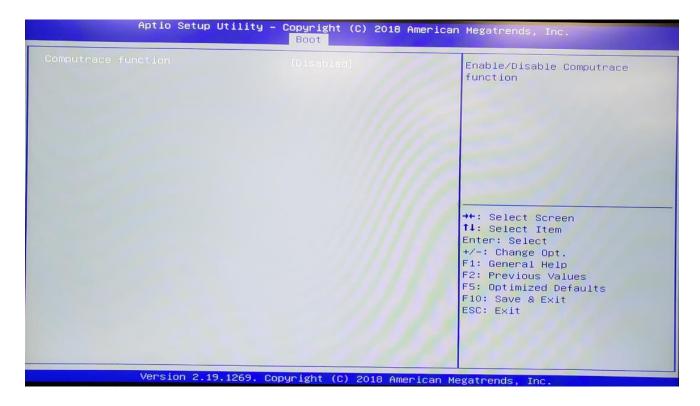
Hardware Encryption: AES 256 bit

Operating System

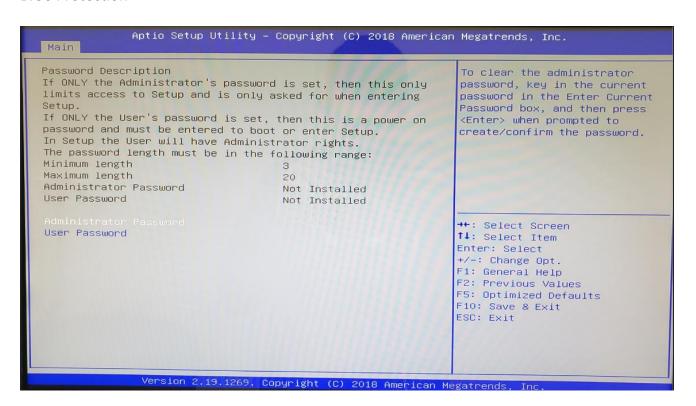
Installed OS: Windows 10 Professional, 64 bit



Computrace Compatibility



BIOS Protection





OPTION ITEMS

Communications

Wireless & Bluetooth Adapter: N4G85AA (Intel 7265)

Wireless Protocol: 802.11 a/g, 802.11n, 802.11ac

Wi-FI Supported Frequency: 2.4G & 5G

Bluetooth: 4.2

Adapter Socket: PCE-E x1

Keyboard – Bilingual

Part Number: KBS225FE-USB-BL

Manufacturer: Solidus

Keyboard Layout: QWERTY - 105 Keys, English and French Function keys

Connectivity: USB

Keyboard – TBITS 5

Part Number: KBS225T5-USB-BL

Manufacturer: Solidus

Keyboard Layout: QWERTY - Symbol Function keys

Connectivity: USB

Keyboard - English

Part Number: ANB-00002

Manufacturer: Microsoft

Keyboard Layout: QWERTY - English Function keys

Connectivity: USB

Mouse – Basic Scroll Mouse

Part Number: 4YH-00005

Manufacturer: Microsoft

Connectivity: USB



Buttons: 2-Buttons, 1-Scroll Wheel & Button

Technology: Optical



Northern Micro ISO 9001-2015 Certification



CERTIFICATE OF REGISTRATION

This is to certify that the Quality Management System of

Northern Micro Inc.

3155 Swansea Crescent Ottawa, Ontario K1G 3J3 CANADA

has been assessed by TRC, Inc. and found to be in conformance to the following standard(s):

ISO 9001:2015

This Registration is for the following scope:

Northern Micro is a consulting manufacturer and integrator of high-performance, value-oriented personal computers, servers and peripherals.

Original Issue Date: October 8, 2013

Current Term Issue Date: December 4, 2017

Expiry Date: December 6, 2020

President, The Registrar Company, Inc.



Certificate Number: TRC 00759

1400 Preston Road, Suite 400, Plano, TX 75093 USA 335 Laird Road, Unit 9, Guelph, ON N1G 4P7 CANADA





Northern Micro ISO 14001:2015 Certification





CERTIFICATE OF REGISTRATION

This is to certify that the Environmental Management System of

Northern Micro Inc.

3155 Swansea Crescent Ottawa, Ontario K1G 3J3 CANADA

has been assessed by TRC, Inc. and found to be in conformance to the following standard(s):

ISO 14001:2015

This Registration is for the following scope:

Northern Micro is a consulting manufacturer and integrator of high-performance, value-oriented personal computers, servers and peripherals.

Original Issue Date: October 8, 2013

Current Term Issue Date: December 4, 2015

Date of Revision: December 2, 2016 Expiry Date: December 20, 2018

President, The Registrar Company; Inc.



Certificate Number: TRC 00760

1400 Preston Road, Suite 400, Plano, TX 75093 USA 335 Laird Road, Unit 9, Guelph, ON N1G 4P7 CANADA





Asus NIST SP800-147 Compliancy



ASUSTER COMPUTER INC.

No.15, Li-De Road, Beitou District, Taipei City 112, Taiwan (R.O.C.) TEL. 886-2-2894-3447 http://asus.com.tw

September 19, 2018

Attn: Northern Micro 3155 Swansea Cres. Ottawa, ON K1G 3J3

Re: NIST SP 800-147 Compliance Declaration

Dear Customer.

We acknowledge the motherboard products specifically listed below ("Products") are provided by us, however the BIOS in the Products are provided by American Megatrends, Inc. ("AMI"). It is our policy to strictly follow and obey all applicable laws and regulations regarding the Products in order to maintain our reputation and goodwill. Furthermore, we have required our manufacturers and vendors as well to perform the compliance obligations with the same degree of care. We hereby declare that AMI has certified with written records that the BIOS in the Products are fully complied with the standards under NIST SP 800-147 stipulated by the government of Canada.

Products:

Model	ASUS 90 Part Number
PRIME Q370M-C	90MB0W70*
PRIME Q270M-C	90MB0SZ0*
PRIME X299-A	90MB0U40*
PRIME X399-A	90MB0V80*

Your faithfully,

ASUSTek Computer Inc.

Motherboard Business Unit Office:+886-2-2894-3447 15, Li-Te Rd., Peitou, Taipei 112, Taiwan

Copyright 2017 ASUSTeK Computer Inc.



Northern Micro Spirt Q370-AS Electrical Certification



Certificate of Compliance

Certificate: NA201810952 Date Issued: August 17, 2018

Project: 358427-7.1

Issued to: Northern Micro

3155 Swansea Cres., Ottawa, ON, K1G 3J3

Canada

The products listed below have been certified as being compliant with all applicable requirements of the specifications listed and are eligible to bear the following certification mark



Authorized by:

S.C. Beck, Director of Certification

PRODUCTS 1

INFORMATION TECHNOLOGY EQUIPMENT - Certified to Canadian Standards

Product: Desktop Computer

Model: Spirit Q370-AS; Spirit Q370-AS TWR

Ratings: 3.5A, 120V, 60HZ

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60950-1-07 incl. Amendment 1 (2011) and Amendment 2 (2014) - Information Technology

Equipment – Safety – Part 1: General Requirements

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the above mentioned specifications and pursuant to the terms and conditions specified in the Certification Agreement.

Nemko North America www.nemko.com Ö

Page 1 of 2





Supplement to Certificate of Compliance

Certificate: NA201810952 Project: 358427-7.1

Customer Number: 127956

Nemko North America grants a license to the applicant to apply the Certification Mark to the certified products and that the mark shall only be affixed at the following factory locations

Factory Information

Factory Name Northern Micro Factory Number

127956

Location

Northern Micro 3155 Swansea Cres.,

Ottawa, ON, K1G 3J3

Canada

Product Certification History

Project	Date	Description
---------	------	-------------

358427-7.1 August 17, 2018 Original Certification: Model: Spirit Q370-AS; Spirit Q370-AS TWR

Ratings: 3.5A, 120V, 60HZ

This Supplement forms an integral part of the Certificate of Compliance

Nemko North America www.nemko.com Ö

e2of2



Northern Micro Spirt Q370-AS FCC Class B and ICES-003



ONE WORLD @ OUR APPROVAL

EMC TEST REPORT - 358427-2TRFEMC

Applicant:

Northern Micro

Product name:

Desktop PC

Model:

Spirit Q370-AS

Specifications:

FCC 47 CFR Part 15, Subpart B – Verification

ICES-003 Issue 6 January 2016

Date of issue: August 17, 2018

Signature: Test engineer(s): Shawn He, Senior EMC Specialist

Shawn He, Senior EMC Specialist Signature: Shawn He
Andrey Adelberg, Senior Wireless/EMC Specialist Signature: Andrey Adelberg Reviewed by:



Nemiko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada.

The tests included in this report are within the scope of this accreditation

www.nemko.com

EN 55032-AS/NZS-FCC-ICES-AS-EN6100032-EN6100033.doo;; Date: June 13, 2017



Northern Micro System Serial Label





S/N 2152503











Northern Micro Spirit Q370-AS WHQL Certification



14497943981051159 Private product ID: Shared product ID: 1152921504607567698 Submission ID: 1152921504627793263

Submission date: 9/17/2018 Completion date: 9/17/2018 Company: Northern Micro

Northern Micro Spirit Q370-AS Product name:

Category: System Desktop Product type:

Qualification level: Certified for Microsoft Windows 10 Client family version 1803, x64

Marketing name:



Northern Micro Spirit Q370-AS EPEAT Certification

Northern Micro Spirit Q370-AS

Product:	Northern Micro Spirit Q370-AS	
CAB:	Green Electronics Council CAB	
Country:	Canada	
Product Type:	Desktops	
Manufacturer:	Northern Micro Inc.	
URL:		
Rating:	COLD	
Registration Date:	10/9/2018	
Product Status:	Active	
Exceptions:		
Manufacturer Part #:		
UPC:		
EAN:		
Consumer or Institutional:	Not Indicated	
Criteria Category Summary		Optional Points
4.1 Reduction/elimination o	f environmentally sensitive materials	5/5
4.2 Materials selection		0/3
4.3 Design for end of life		4/5
4.4 Product longevity/life cyc	de extension	2/2
4.5 Energy conservation		1/2
4.6 End of life management	t	1/1
4.7 Corporate performance		2/2
4.8 Packaging		4/4
Total Optional Points:		19/24



Northern Micro Spirit Q370-AS Energy Star Certification



Certificate of Conformity

The products listed below have been certified as being compliant with all applicable requirements of the specifications listed

Certificate Number : ES10948 Issue : 1 Certificate Issued to : Northern Micro Inc. 3155 Swansea Cres Ottawa, ON K1G 3J3 Canada **Brand Name** : Northern Micro **Model Name** : Q370-AS **Model Number** : Q370 AS **Equipment Description** : Desktop Computer, SFF **Applicable Standards** : ENERGY STAR® Program Requirements for Computers Eligibility Criteria (Version 7.0) This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the above mentioned specifications and pursuant to the terms and conditions specified in the Certification Agreement.

Sim Jagpal, General Manager



Authorized by:

Date:

4 October 2018





Annex A to Certificate: ES10948

Certification History:

Order Number	<u>Date</u>	<u>Description</u>
358427	4 October 2018	Original Certification to ENERGY STAR® Program Requirements for Computers Eligibility Criteria (Version 7.0)

Additional Information:

Intended for North American market

This Annex forms an integral part of the Certificate of Compliance





Micro Technology ISO 9001 Certification



CERTIFICATE

Certificate Number: 110006.000 With Two Page ADDENDUM

The Quality System of:

JEKRA

Micron Technology, Inc. 8000 S. Federal Way Boise, ID 83707-0006 USA

Including its implementation, meets the requirements of the standard:



ISO 9001:2015

Scope:

Micron's semiconductor business – including the development, manufacturing, support and sale of semiconductor memories and systems products.

This Certificate is valid until: This Certificate is valid as of: This Certificate Reissued: Certified for the first time: January 31, 2021 February 1, 2018 September 07, 2018 February 1, 1994

Combe

Dr. Cem O. Onus Managing Director, Business Assurance DEKRA Certification, Inc.

The method of operation for quality certification is defined in the DEKRA Master Services Agreement. Integral publication of this certificate is allowed.

DEKRA Certification, Inc. 1120 Welsh Road, Suite 210 North Wales, PA 19454 USA

Ph: (215)997-4519 Fax: (215)997-3810 Accredited By: ANAB





CERTIFICATE

ADDENDUM ISO 9001:2015 CERTIFICATE To Certificate Number: 110006.000

Page one of two

This Certificate is valid until: January 31, 2021

Legal Entity Name	Address	Scope
Micron Technology, Inc.	8000 S. Federal Way, P.O. Box 6. Boise, ID 83707 – 0006 USA	Headquarters; After Sales, Contract Review, Global Quality, Management review and business planning, Design, Engineering, Facilities, Facility Planning, HR, IT, Laboratory, Logistics, Marketing, Packaging, Policy Making, Procurement, Purchasing, R & D, Sales, Sequencing, Strategic Planning, Supplier Control, Supplier Development, Manufacturing, Training, Warranty, Warranty Evaluation
Micron Technology, Inc.	7560 S. Federal Way, Boise, ID 83716 – 9605 USA	Manufacturing, Testing
Micron Technology Inc.	1160 Exchange Street, Boise ID 83716- 5746	Logistics, Warehousing, Distribution
Micron Technology Inc.	E. Commercial Court, Meridian, ID 83642 – 6041 USA	Sales
Micron Technology, Inc.	9600 Godwin Drive Manassas, VA 20110 USA	Manufacturing, Testing
Micron Technology Texas, LLC.	805 Central Expressway South, Suite 100, Allen, TX 75013, USA	Design
Micron Technology Inc.	2235 Iron Point Road, Folsom, CA 95630 USA	Design, Engineering, Marketing, Strategic Planning
Micron Technology, Inc.	Tasman Technology Park, 570 Alder Drive, Milpitas, CA 95035, USA	Design, Marketing, Laboratory
Micron Semiconductor (Deutschland) GmbH	Leopoldstrasse 250 B D-80807 Munich, Germany	Sales, Laboratory, Engineering, Product Planning
Micron Semiconductors Italia S.r.I.	Contrada Blocco Torrazze, Catania, 95121,/	After/Sales, Design, Engineering, IT, Laboratories, Global/Quality
Micron Semiconductors Italia S.r.l.	Via Remo de Feo 1, Arzano, Napoli/80022, / Italy	Design, Engineering, Vaboratories
Micron Semiconductors Italia S.r.l.	Via Torri Bianche 24, Vimercate MB, 2087/1/ Italy	R&D, Engineering, Global Quality
Micron Semiconductors Italia S.r.l.	Green Building (GB) Campus, Via/Torento/ n.26, Vimercate MB, 20871/Italy/	R&D/Engineering, Global Quality
Micron Semiconductors Italia S.r.l.	Via A. Pacinotti, 7 Avezzano, 67051/Italy/	/Design, Laboratory
Micron Semiconductor Asia Operations Pte. Ltd.	No. 1 Woodlands Industrial Park D, Street 1, Singapore 738799, Singapore	Mahufacturing, Testing
Micron Semiconductor Asia Operations Pte. Ltd.	1 North Coast Drive, Singapore 757432 Singapore	Manufacturing, Purchasing, Human Resources, Information Technology, Engineering, Management Review, Strategic planning, Supplier management, Contract Review

Dr. Cem O. Onus

Managing Director, Business Assurance

DEKRA Certification, Inc.

The method of operation for quality certification is defined in the DEKRA Master Services Agreement. Integral publication of this certificate is allowed.

DEKRA Certification, Inc. 1120 Welsh Road, Suite 210 North Wales, PA 19454

NOILI VVI... USA Ph: (215)997-4519 Fax: (215)997-3810

Accredited By: ANAB





CERTIFICATE

Address

ADDENDUM to ISO 9001:2015 CERTIFICATE To Certificate Number: 110006.000

Scope

Page two of two

Legal Entity Name

This Certificate is valid until: January 31, 2021

Legal Entity Name	Addicas	Geope
Micron Semiconductor Asia Operations Pte. Ltd.	990 Bendemeer Road, Singapore 339942 Singapore	Manufacturing, Engineering, After Sales, Supplier management, Global Quality, Sequencing, Labeling, Packaging, R&D, Testing, Sales, Engineering, Design
Micron Semiconductor Asia Operations Pte. Ltd.	8 Ang Mo Kio Avenue 12, Singapore 569709, Singapore	Manufacturing, Testing
Micron Semiconductor Asia Operations Pte. Ltd.	Level 5 Warehouse 2, 35 Greenwich Drive, Singapore 533952, Singapore	Logistics, Warehousing, Distribution
Micron Semiconductor Malaysia Sdn. Bhd.	Tanjong Agas Industrial Area, P.O. Box 62, Muar, Johor, 84000, Malaysia	Manufacturing, Testing
Micron Semiconductor Malaysia Sdn. Bhd.	No. K93 (PLO 74), Jalan Perindustrian 7, Taniung Agas Industrial Area, Muar, Johor 84007, Malaysia	Warehousing
Micron Semiconductor (Xi'an) Co., Ltd.	Zone B of Shaanxi Xi'an Export Processing Zone, Xin Xi Avenue, Xi'an 710119, China (PRC)	Manufacturing, Testing, Warehousing
Micron Semiconductor (Shanghai) Co., Ltd.	Caohejing Modern Service Complex, 7F – 10F, Building A2, No. 1528 Gu Mei Road, Shanghai 20023, China (PRC)	Design, Sales, Laboratory
Micron Technology (Shanghai) Co., Ltd.	New Development Park, Building 70, No. 601, FA Sai Road, Waigaoqian Free Trade Zone, Pudong Shanghai 200131, China (PRC)	Design, Engineering, Laboratories
Micron Semiconductor (Shanghai) Co., Ltd., Shenzhen Branch	10F, Tower B, Anlian Plaza, No.4018 Jiantian Road, Shenzhen, 518026, China (PRC)	Sáles
Micron Memory Japan, Inc.	7-10 Yoshikawa Kogyo Danchi, Higashihiroshima-Shi, Hitoshima, 739- 0198, Japan	/R&D/Manufacturing/Testing
Micron Memory Japan, Inc.	/ 3-1-35 Minami Hashimoto, Chuo/Ku/ Sagamihara-shi, Kanagawa, 252-5297, Japan	After Sales / R. & / D. Design and Development, Global Quality / Procurement, Supply Chain
Micron Japan Ltd.	/ 8th floor, Shinagawa Season Terrace, 1/2- /70, Konan, Minato-ku, /Tokyo, 108-0075, Japan	Sales, After Sales, Laboratory
Micron Memory Japan, Inc.	2-1, Yaesu 2-Chome, Chuo-ku, Chou-ku, // Tokyo, 104-0028, Japan	HR, Supply/Chain, IT
Micron Semiconductor Korea Co., Ltd.	5th Floor Glass Tower Blog., 534 Teheran- ro, Gangnam-gu, Seoul, 06181 Korea	Sales
Micron Memory Taiwan Co. Ltd.	No. 369, Sec. 4, Sanfong Rd:, Houli Dist./ Central Taiwan Science Park Taichung/ City, 42152.Taiwan	Manufacturing, Testing
Micron Memory Taiwan Co. Ltd.	No. 88 Houke South Road, Houli Dist. Central Taiwan Science Park, Taichung City, 42152, Taiwan (TCP and MTB)	Manufacturing, Testing
Micron Technology Asia Pacific, Inc.	Suite 2508, 25 th Floor, 333 Keelung Road, Sec – 1 – Taipei 110, Taiwan	Sales, After Sales, Laboratory

Dr. Cem O. Onus

Managing Director, Business Assurance

DEKRA Certification, Inc.

The method of operation for quality certification is defined in the DEKRA Master Services Agreement. Integral publication of this certificate is allowed.

DEKRA Certification, Inc. 1120 Welsh Road, Suite 210 North Wales, PA 19454 USA

Ph: (215)997-4519 Fax: (215)997-3810

Accredited By: ANAB





Northern Micro Spirit Q370-AS Course Outline

Course # - NM101-Q370 Northern Micro Spirit Q370 Series Course Outline

Setup

- Introduction
- Safety Precautions
- Electrostatic Discharge (ESD)
- Setup & Configuration
- Care & Maintenance

General Specifications

- Motherboard
- CPU
- Memory
- Rear Panel Connectors
- Audio Configuration
- Hard Drive (SATA, M.2, SSD)
- Optical Drive
- Power Supply
- Keyboard & Mouse
- Optional Features
- Internal & External Connections

Installation and Removal

- Accessing the inside components
- Removal and Replacement of components

BIOS

- Understanding the BIOS
- BIOS settings and Options

Troubleshooting

- Troubleshooting Tips and Tricks
- Approved Diagnostic Tools

Platform Security

- What is TPM
- Safety Precautions



Environmental

- Environmental policy Environmental initiatives

Contacts

Support contact resources