



This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 2 and Fab. 5 121, Park Ave. 3, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949 : 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 20002967 TS09

IATE No. 0191169

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20002967 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191169

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 2 and Fab. 5 121, Park Ave. 3, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002969	
Taiwan Semiconductor Manufacturing Company Ltd.	R & D.
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002970	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	orporate quanty.
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002966	





This is to certify that

### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 3 9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 50600046 TS09

IATE No. 0191166

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 50600046 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191166

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 3 9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor	Strategic planning, Sales, Contract Review,
Manufacturing Company Ltd.	Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.	
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002966	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 6 1, Nan-Ke North Rd., Tainan Science Park Tainan, Taiwan 741-44, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949 : 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 20002965 TS09

IATE No. 0191162

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20002965 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191162

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 6 1, Nan-Ke North Rd., Tainan Science Park Tainan, Taiwan 741-44, R.O.C.

Remote Location	Scope
Taiwan Semiconductor	Stratagic planning Sales Contract Baylow
Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.	
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
L	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002966	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 8 25, Li-Hsin Rd., Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 50600048 TS09

IATE No. 0191171

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26



For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 50600048 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191171

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 8 25, Li-Hsin Rd., Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human
Manufacturing Company Ltd.	resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.	
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002966	





This is to certify that

#### TSMC (China) Company Limited, (Fab 10)

4000, Wen Xiang Road Songjiang, Shanghai, China 201616

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26
This certificate is valid until 2017-08-25

Certificate Registration No. 20003351 TS09

IATF No. 0191167

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20003351 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191167

## TSMC (China) Company Limited, (Fab 10)

4000, Wen Xiang Road Songjiang, Shanghai, China 201616



Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing.
Corporate Headquarters and Fab. 12A 8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002969	<b>.</b>
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.  Fab. 12B  168, Park Ave. 2, Hsinchu Science Park  Hsinchu, Taiwan 300-77, R.O.C.  Ref. No.: 20002970	
Taiwan Semiconductor Manufacturing Company Ltd.	Corporate Quality.
Fab. 3 9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 50600046	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Corporate Headquarters and Fab. 12A 8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949 : 2009

(with product design)

Certification decision 2014-08-26
This certificate is valid until 2017-08-25

Certificate Registration No. 20002969 TS09

IATE No. 0191161

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26



For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20002969 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191161

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Corporate Headquarters and Fab. 12A 8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	R & D.
Fab. 12B 168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002970	
Taiwan Semiconductor Manufacturing Company Ltd.	Corporate Quality.
Fab. 3 9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 50600046	
Taiwan Semiconductor Manufacturing Company Ltd.	Logistics.
Advanced Backend Fab. 1 6, Creation Rd. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002966	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 12B 168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 20002970 TS09

IATE No. 0191165

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

For and on behalf of DQS GmbH

Ganesh Rao

Managing Director, UL DQS Inc.

2-IAO-QMC-01001



Annex to Certificate Registration No.: 20002970 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191165

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 12B 168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor	Strategic planning, Sales, Contract Review,
Manufacturing Company Ltd.	Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002966	
Nei. No 20002300	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 14 1-1, Nan-Ke North Rd., Tainan Science Park Tainan, Taiwan 741-44, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949 : 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 20002968 TS09

IATF No. 0191160

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20002968 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191160

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 14 1-1, Nan-Ke North Rd., Tainan Science Park Tainan, Taiwan 741-44, R.O.C.

Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.	
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002966	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Fab. 15 No. 1, Keya 6th Rd., Daya Dist. Taichung City, Taiwan 428-82, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2012-10-06

This certificate is valid until 2015-10-05

Certificate Registration No. 20006804 TS09

IATF No. 0147759

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20006804 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0147759

# **Taiwan Semiconductor Manufacturing Company Ltd.**



Fab. 15 No. 1, Keya 6th Rd., Daya Dist. Taichung City, Taiwan 428-82, R.O.C.

Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A 8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002969	
Taiwan Semiconductor Manufacturing Company Ltd.	R & D.
Fab. 12B 168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002970	
Taiwan Semiconductor Manufacturing Company Ltd.	Corporate Quality.
Fab. 3 9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 50600046	
Taiwan Semiconductor Manufacturing Company Ltd.	Logistics.
Advanced Backend Fab. 1 6, Creation Rd. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002966	





This is to certify that

#### Taiwan Semiconductor Manufacturing Company Ltd.

Advanced Backend Fab. 1 6, Creation Rd. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 20002966 TS09

IATE No. 0191168

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 20002966 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191168

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Advanced Backend Fab. 1 6, Creation Rd. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

Remote Location	Scope
Taiwan Semiconductor	Strategic planning, Sales, Contract Review,
Manufacturing Company Ltd.	Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002969	
Taiwan Semiconductor	R & D.
Manufacturing Company Ltd.	
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor	Corporate Quality.
Manufacturing Company Ltd.	
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 50600046	





This is to certify that

### Taiwan Semiconductor Manufacturing Company Ltd.

Advanced Backend Fab. 2 No. 3, Sec. 2, Huanxi Rd., Tainan Science Park Tainan, Taiwan 744-41, R.O.C.

has implemented and maintains a Quality Management System.

#### Scope:

The design of IP/Library and the associated manufacture of Integrated Circuits.

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following ISO Technical Specification:

ISO/TS 16949: 2009

(with product design)

Certification decision 2014-08-26

This certificate is valid until 2017-08-25

Certificate Registration No. 50600052 TS09

IATE No. 0191163

Main Certificate Registration No. 20002969 TS09

Buffalo Grove, IL, USA 2014-08-26

2-IAO-QMC-01001

For and on behalf of DQS GmbH

Ganesh Rao



Annex to Certificate Registration No.: 50600052 TS09 Main Certificate Registration No.: 20002969 TS09

IATF-No.: 0191163

### **Taiwan Semiconductor Manufacturing Company Ltd.**



Advanced Backend Fab 2 No. 3, Sec. 2, Huanxi Rd., Tainan Science Park Tainan, Taiwan 744-41, R.O.C.

Remote Location	Scope
Taiwan Semiconductor Manufacturing Company Ltd.	Strategic planning, Sales, Contract Review, Customer Service, Purchasing, Human resource.
Corporate Headquarters and Fab. 12A	icsource.
8, Li-Hsin Rd. 6, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002969	
Taiwan Semiconductor Manufacturing Company Ltd.	R & D.
Fab. 12B	
168, Park Ave. 2, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.	
Ref. No.: 20002970	
Taiwan Semiconductor Manufacturing Company Ltd.	Corporate Quality.
Fab. 3	
9, Creation Rd. 1, Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 50600046	
Taiwan Semiconductor	Logistics.
Manufacturing Company Ltd.	
Advanced Backend Fab. 1	
6, Creation Rd. 2, Hsinchu Science Park	
Hsinchu, Taiwan 300-77, R.O.C. Ref. No.: 20002966	