



CERTIFICATE



This is to certify that

United Microelectronics Corporation

Fab 8AB, Fab 8C, Fab 8D
No. 3, Li-Hsin Road II, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

has implemented and maintains a **Quality Management System.**

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003422 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-05-21
This certificate is valid until	2021-05-20
IATF No.	0305966



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 20003422 IATF16
IATF-No.: 0305966

United Microelectronics Corporation

FAB 8ABCD
No. 3, Li-Hsin Road II, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China



Remote Location

Scope

50600089
UMC USA
488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.



CERTIFICATE



This is to certify that

United Microelectronics Corporation

FAB 8E
No. 17, Li-Hsin Road, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

has implemented and maintains a **Quality Management System.**

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003420 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-05-21
This certificate is valid until	2021-05-20
IATF No.	0305957



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 20003420 IATF16
IATF-No.: 0305957

United Microelectronics Corporation

FAB 8E
No. 17, Li-Hsin Road, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China



2-IAO-QMC-01001

Remote Location

Scope

20003422

United Microelectronics Corporation
UT No. 3, Li-Hsin Road II
Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

contract review, internal audit management,
management review, customer service, product
design, process design, human resource,
information technology, laboratory, logistics,
marketing, packaging, policy making,
purchasing, quality system management, sales,
strategic planning, supplier management,
testing, training.

50600089

UMC USA
488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.



CERTIFICATE



This is to certify that

United Microelectronics Corporation

FAB 8F
No. 3, Li-Hsin Road VI, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

has implemented and maintains a **Quality Management System**.

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003423 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-05-21
This certificate is valid until	2021-05-20
IATF No.	0305968



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 20003423 IATF16
IATF-No.: 0305968

United Microelectronics Corporation

FAB 8F
No. 3, Li-Hsin Road VI, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China



2-IAO-QMC-01001

Remote Location

Scope

20003422

United Microelectronics Corporation

UT No. 3, Li-Hsin Road II
Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

contract review, internal audit management,
management review, customer service, product
design, process design, human resource,
information technology, laboratory, logistics,
marketing, packaging, policy making,
purchasing, quality system management, sales,
strategic planning, supplier management,
testing, training.

50600089

UMC USA

488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.



CERTIFICATE



This is to certify that

United Microelectronics Corporation

FAB 8S
No. 16, Creation Road I, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

has implemented and maintains a **Quality Management System**.

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003419 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-05-21
This certificate is valid until	2021-05-20
IATF No.	0306180



For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



**Annex to certificate registration no.: 20003419 IATF16
IATF-No.: 0306180**

United Microelectronics Corporation

FAB 8S
No. 16, Creation Road I, Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China



Remote Location

Scope

20003422

United Microelectronics Corporation
UT No. 3, Li-Hsin Road II
Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

Contract Review; Customer service; Human Resource; Information Technology; Internal audit management; Laboratory; Logistics; Management review; Marketing; Packaging; Policy making; Product design; Process design; Purchasing; Quality system management; Sales; Strategic planning; Testing; Training.

50600089

UMC USA
488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.



CERTIFICATE



This is to certify that

United Microelectronics Corporation

FAB 12A
No. 18, Nanke 2nd Rd., Tainan Science Park, Sinshih Dist.
Tainan City Taiwan 741,
Republic of China

has implemented and maintains a **Quality Management System**.

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003421 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-05-21
This certificate is valid until	2021-05-20
IATF No.	0305964



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 20003421 IATF16
IATF-No.: 0305964

United Microelectronics Corporation

FAB 12A
No. 18, Nanke 2nd Rd., Tainan Science Park, Sinshih Dist.
Tainan City Taiwan 741,
Republic of China



Remote Location

Scope

20003422

United Microelectronics Corporation
No. 3, Li-Hsin Road II
Science-Based Industrial Park
Hsin-Chu City Taiwan 300,
Republic of China

Strategic planning, policy making, internal audit management, management review, sales, marketing, contract review, customer service, product design, process design, purchasing, quality system management, supplier management and laboratory.

50600089

UMC USA
488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.



CERTIFICATE



This is to certify that

United Microelectronics Corporation (Singapore Branch)

FAB 12i
No. 3, Pasir Ris Drive 12
Singapore 519528
Singapore

has implemented and maintains a **Quality Management System**.

Scope:

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

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	20003426 IATF16
Main certificate registration no.	20003422 IATF16
Issuing date	2018-04-26
This certificate is valid until	2021-04-25
IATF No.	0302713



2-IAO-QMC-01001

For and on behalf of DQS

Nurani S. Venkatachalam
Corporate Program Manager Automotive, DQS Holding GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH



Annex to certificate registration no.: 20003426 IATF16
IATF-No.: 0302713

**United Microelectronics
Corporation (Singapore Branch)**



2-IAO-QMC-01001

FAB 12i
No. 3, Pasir Ris Drive 12
Singapore 519528
Singapore

Remote Location

Scope

20003422

United Microelectronics Corporation
No. 3, Li-Hsin Road II
Science-Based Industrial Park
Hsin-Chu City
Taiwan 300,
Republic of China

Contract review, Internal audit management,
Management review, Customer service, Policy
making, Purchasing, Quality system
management, Sales, Strategic planning,
Supplier management.

20003421

United Microelectronics Corporation
FAB 12A
No. 18, 20, Nanke 2nd Rd.
Tainan Science Park, Sinshih Dist.
Tainan City
Taiwan 741,
Republic of China

Product design, Process design.

50600089

UMC USA
488 De Guigne Drive
Sunnyvale, CA 94085
USA

Sales, Contract review.