UMS

MMIC Solutions up to 100GHz

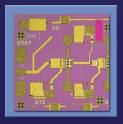
The European Source for Products, Solutions and Foundry Services



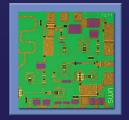












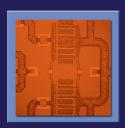




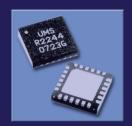














ABOUT US

United Monolithic Semiconductors* (UMS) was created in 1996 to provide a European source of III-V technologies and products.

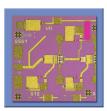
The Company has industrial facilities in Ulm, Germany and Orsay, France (headquarters).



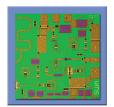












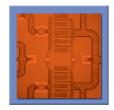


















PROFILE

United Monolithic Semiconductors is THE European source of MMIC Solutions and Foundry Services

* A joint venture of Thales and EADS Deutschland GmbH

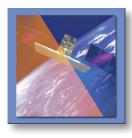
OUR MARKETS and SKILLS

United Monolithic Semiconductors designs, produces and markets leading edge RF millimetre wave components and solutions for:



Telecom Infrastructure

Serving the RF, microwave and millimetre wave needs for the wireless industry, in particular Point to Point, Point to Multi-Point, BTS backhauls and VSAT applications with leading edge products, UMS offers both standard products and ASIC, in bare die and packaged forms. UMS is recognized as a key partner by all of the major Telecom Companies.



Space

UMS offers an extensive range of Space evaluated and qualified technologies and products with a considerable heritage, coming from the involvement in many major programs in cooperation with the main worldwide players.



Defence and Security

Offering leading edge technologies and products, particularly for high power applications, UMS has enabled the construction of advanced cost effective EW, Radar and communication systems. UMS is a strategic partner in most of the European Defence programs. This capability is now being extended to serve the emerging Security market.



Automotive

As a pioneer in the supply of MMIC solutions for Long Range Radar (77GHz) and Short Range Radar (24GHz/79GHz) applications, UMS has enabled customers to achieve their required functionalities while reducing costs. UMS continues to offer advanced solutions for all the frequency bands, in both GaAs and SiGe technologies, with innovative architectures and packaging solutions.



ISM

UMS offers product solutions for the Industrial, Scientific and Medical markets. An example of this is the road tolling application at 5.8GHz where we offer a single chip solution for the on-board equipment in high volume, challenging the performance and cost of conventional discrete solutions.

Our technologies offer leading edge performance and high volume capability: many are available in open foundry service mode.

TECHNOLOGY

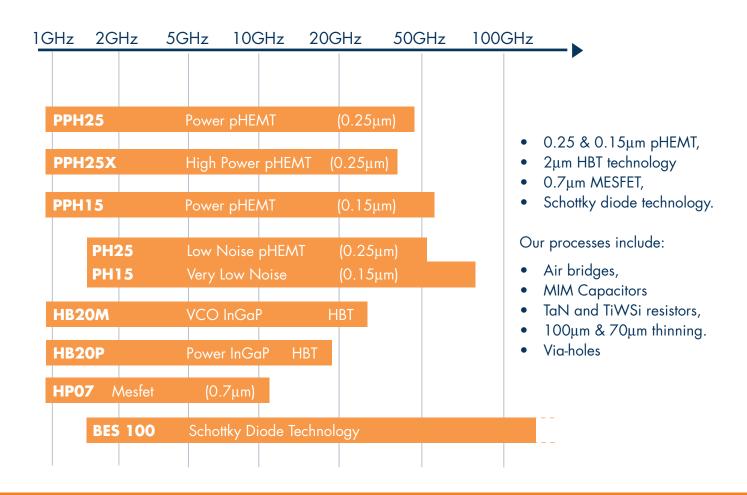
UMS sources most of its semiconductor technology needs internally. We do however have external foundry partnerships in place to enlarge this internal capability, particularly for certain high volume applications and for silicon based technologies e.g. SiGe.

Our technology roadmap is driven by

- The need to provide new competitive product solutions to our customers through advanced technologies,
- The market demand for open foundry services.

For our technology developments, we benefit from

- A strong internal capability and direct links between product performance and technology features,
- Partnerships with the main European Research Labs in particular for our recent developments in GaN technology.



FOUNDRY SERVICES

UMS offers open access to a wide range of technologies. The foundry offer includes a range of core functions and optional services. This shortens total time to market, while providing flexible technical support throughout the project duration.



- Optional training course (2 days session) to help you to get the most from your design.
- Design Kits supported by extended accurate models available on commercial platforms.
- Critical Foundry Design Reviews to identify and solve issues at early stage.
- Manufacturing using reliable and repeatable processes.
- Optional on-wafer testing and sorting for an efficient one shot delivery.
- Optional Diced KGD (Known Good Die) delivery.

UMS PRODUCTS

UMS offers a wide range of State of The Art products up to 100GHz.

Most of them are available both in die form and in SMD QFN leadless package.

All UMS products are RoHS compliant.

Low Noise Amplifier

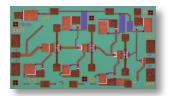
Power Amplifier

High Power Amplifier

Variable Gain Amplifier

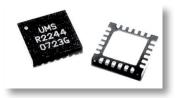
Digital Variable Gain Amplifier

Splitter Amplifier



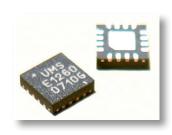
Mixer
Multiplier
Downconverter

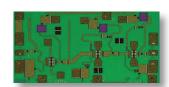
Dielectric Resonator oscillator Voltage Control Oscillator

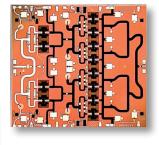


Attenuator Detector

Diode
Phase shifter
Prescaler
Switch
Transistor
Transponder







ALL UMS PRODUCTS ARE DETAILED IN UMS MMICs SELECTION GUIDE AND ON OUR WEBSITE www.ums-gaas.com

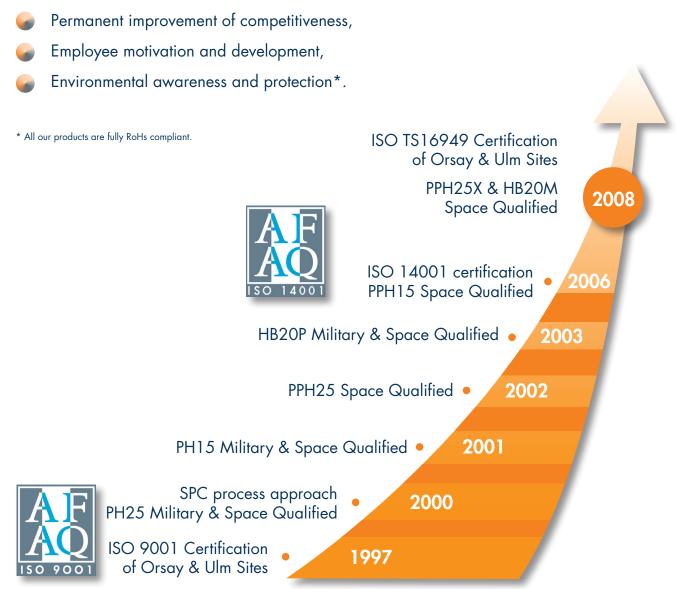
QUALITY

UMS is dedicated to customer satisfaction. All processes are accurately defined and controlled while being continuously improved. The company is certified ISO 9001, ISO 14001 and ISO TS16949.

PH25, PH15, PPH15, PPH25, PPH25X, HB20M, HP07 and HB20P have been successfully evaluated by the European Space Agency. UMS is permanently monitoring its technologies through extensive reliability tests including DC, high temperature storage, humidity, bias and RF stress. Products are 100% screened on production automated equipments, both for RF performance and visual inspection, prior to customer delivery.

To meet the growing challenges of our markets, UMS relies on the effective implementation of its Quality Policy:

Customer satisfaction and loyalty,



UMS CONTACT INFORMATION

UMS - AMERICA

40 G Commerce Way Totowa, New Jersey 07512 - USA

Telephone: +1.973.812.2139. Fax: +1.973.812.9043.

E-mail: philippe.labasse@us.ums-gaas.com

UMS SAS - EUROPE except Italy

Route départementale 128 BP46 - 91401 Orsay - FRANCE

Telephone: +33 1 69 33 02 26 Fax: +33 1 69 33 03 09 E-mail: mktsales@ums-gaas.com



THALES Italia

Components & Subsystems Div. Via Tiburtina, 1072 00156 - ROMA - ITALY

Telephone: +39.06 639 02 48 Fax: +39.06 639 02 07

E-mail: s.brunetti@thalescomponenti.it

UMS - ASIA

Apollo Business Center Room 407 - 1440 Yan An Road (C) Shanghai 200040 - PR CHINA

Telephone: +86 21 6103 1635 Fax: +86 21 6103 1636

E-mail: xavier.taltasse@ums-gaas.com

SALES DISTRIBUTOR & REPS

Distributor (Worldwide)

RICHARDSON - www.rell.com

Regional Representatives

UNITED KINGDOM

 ADMIRAL MICROWAVES LTD - UNITED KINGDOM sales@admiral-microwaves.co.uk

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- DURA SALES OF SOUTHERN CALIFORNIA, INC (Southern California) jk@durasocal.com, yvette@durasocal.com
- RF ASSOCIATES (Massachussetts, New Hampshire, Connecticut, Maine, Vermont, Rhode Island) sales@rfassociates-ne.com
- K-TECH SALES (Northern Carolina, Northern Nevada) dmoshiri@ktechsales.com, kdreyer@ktechsales.com
- TSR MARKETING GROUP (Metropolitan NY area + Northern NJ) info@tsrmarketing.com

ASIA

- ALLWIN TECHNOLOGY, Inc CHINA sales@allwintek.com
- TMT ENTERPRISE DEVELOPMENT Co CHINA tmtnj@e172.com
- UM-Services, ltd JAPAN hideaki.amano@ums-gaas.jp
- ANYWAVE, Co Ltd KOREA kang@anywave.net, tomkang@kornet.net
- DENITEL SDN BHD MALAYSIA kabir@pc.jaring.my
- CELCOM CORPORATION TAIWAN celcom@ms 10.hinet.net

For further details, Visit us: www.ums-gaas.com or contact us: mktsales@ums-gaas.com







www.ums-gaas.com

UMS Europe: +33(0) 1 69 33 02 26

UMS USA: +1 973 812 2139 UMS Asia: + 86 21 6103 1635