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MACOM is driving the commercialization of gallium nitride into mainstream application

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by offering a portfolio of both GaN on Silicon (Si) and GaN on Silicon Carbide (SiC) products. MACOM Gallium Nitride (GaN)

MACOM Gallium Nitride (GaN)

RF Power Amplifier - GaN. MACOM GaN portfolio of RF power amplifier products is based on GaN-on-Si and GaN-on-SiC technologies. Our MACOM PURE CARBIDE

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series of GaN-on-SiC power amplifiers is our latest addition and offers high performance for the most demanding applications. Our expanding GaN portfolio exhibits best in class RF performance with respect to power, gain and efficiency.

**GaN on Si RF Power Transistors -
macom.com**

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MACOM announces the introduction of its new Gallium Nitride on Silicon Carbide (GaN-on-SiC) power amplifier product line, which it is branding MACOM PURE CARBIDE™. (Graphic: Business Wire)

MACOM Introduces New GaN-on-Silicon Carbide (SiC) Power

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MACOM Introduces
New GaN-on-Silicon
Carbide (SiC) Power

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Amplifier Product Line
The MAPC-A1000 is a high power GaN-on-SiC amplifier designed to operate between 30 MHz and 2.7 GHz and is housed in a... The MAPC-A1100 is a high power GaN-on-SiC amplifier designed to operate up to 3.5 GHz. The device is ...

**MACOM - MACOM
Introduces New GaN-
on-Silicon Carbide
(SiC**

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“GaN on SiC is a compelling technology and we are excited to begin offering our customers both standard and custom Macom Pure Carbide power amplifier solutions.” The MAPC-A1000 is a high power GaN-on-SiC amplifier designed to operate between 30 MHz and 2.7 GHz and is housed in a surface mount plastic package.

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Macom launches GaN-on-SiC Power Amp range - News

Yole's Business Unit Manager, Pierric Gueguen, explains, "GaN-on-Si technology has resulted in numerous assets for many applications, including RF and power electronics, and GaN-on-Si players have latched onto this potential. It is entirely natural for a bridge to form between the RF

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and power electronics markets.

GAN ON SI VS. GAN ON SIC - MACOM/INFINEON TECHNOLOGIES ...

The settlement of the dispute between MACOM and Infineon follows a long trail. The GaN on Si IP in contention was first developed by Nitronex, a GaN on Si start-up born from research at North Carolina State

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University. In 2010, Nitronex sold the IP rights to International Rectifier (IR).

MACOM and Infineon Settle GaN on Si Lawsuit | 2018-11-14

...

GaN on Silicon General Purpose Amplifier, 20 - 1000 MHz, 28 V, 12.5 W The NPA1006 is a GaN on silicon amplifier optimized for 20 - 1000 MHz operation. This

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amplifier has been designed for saturated and linear operation with output levels to 12.5 W (41 dBm) assembled in a lead-free 6 x 5 mm 8-lead PDFN plastic package.

MACOM - Product Detail - NPA1006

MACOM and STMicroelectronics to Bring GaN on Silicon to Mainstream RF Markets and Applications Combines

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manufacturing scale, supply security, and surge capacity from ST with MACOM's GaN on Silicon RF power products to address mainstream consumer, automotive, and wireless basestation programs

MACOM and STMicroelectronics to Bring GaN on Silicon to ...

MACOM Introduces
New GaN-on-Silicon

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Carbide (SiC) Power
Amplifier Product Line
08/05/2020 MACOM
Launches A New High
Performance
Connectorized Switch
Product Line

MACOM - Partners from RF to Light

GaN-on-Si is uniquely
positioned to meet all
core requirements for
mainstream
commercial adoption
Reliability Integration
Cost MACOM GaN-on-Si

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OpEx Saving \$ CapEx
Saving \$ Multi-Ban d
Systems High
Frequency Time to
Market Compact
Lightweight LTE-
Advanced Massive
MIMO 5G MACOM
Transforming the
Network with GaN-on-
Si GaN-on-Si Gan-on-
SiC Small Wafer
Diameters 3" - 4"

MACOM info FINAL3

Lowell, Massachusetts,
January 22, 2019 -

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MACOM Technology Solutions Inc. (“MACOM”), a leading supplier of semiconductor solutions, has expanded its GaN-on-Si power amplifier portfolio with the introduction of its new MAMG-100227-010 broadband PA module optimized for use in land mobile radio (LMR) systems, wireless public safety communications and

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military tactical
communications and
electronic
countermeasures
(ECM).

MACOM - MACOM Introduces Broadband, Multistage GaN-on- Si ...

"GaN on Silicon
Carbide is a compelling
technology and we are
excited to begin
offering our customers
both standard and

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custom MACOM PURE CARBIDE™ power amplifier solutions.” The MAPC-A1000 is a high power GaN-on-SiC amplifier designed to operate between 30 MHz and 2.7 GHz and is housed in a surface mount plastic package. The easy-to-use general purpose amplifier integrates an input match which simplifies the customer’s design-in effort.

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MACOM Introduces New GaN-on-Silicon Carbide (SiC) Power

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MACOM Announces
GaN-on-Si MMIC Power
Amplifiers for Massive
MIMO 5G High-
performance MAGM
Series combines
MACOM's established
industry leadership in
GaN-on-Si and MMIC
technologies New
MAGM-103436-040A0P
delivers wideband

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performance and superior efficiency compared to LDMOS-based offerings, at comparable cost structures

MACOM Announces GaN-on-Si MMIC Power Amplifiers for

...

This leaves GaN on Si technology as the only viable way forward for the commercial development of GaN. However, to meet the

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volume, cost and surge capacity requirements for mainstream RF commercial markets, GaN on Si production must be ported from III-V compound semiconductor foundries to mainstream CMOS manufacturing lines.

RF GaN on Si Meets CMOS Manufacturing | 2018-05-15 ...

Infineon claims that MACOM was violating a

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license agreement for use of Infineon's GaN on Si patents, which led Infineon to terminate the license in March 2016. In April, MACOM filed suit, claiming Infineon was violating the license agreement.

Infineon Responds to MACOM's GaN on Si Lawsuit | 2016-12

...

The NPA1003QA is a GaN on silicon power

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amplifier optimized for 20 - 1500 MHz operation. This amplifier has been designed for saturated and linear operation with output levels to 5 W (37 dBm) assembled in a lead-free 4 mm 16-lead QFN plastic package. 1,2

**NPA1003QA RFIN /
VG 3 10 RFOUT / VD
IN G GaN on ... -
MACOM**

The joint venture
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company will be based in Hong Kong and will supply, market, and distribute GaN-on-Si based RF Power components into China's base station market, which includes its 5G buildout.

Goertek will provide to MACOM up to \$134.6 million, including \$30 million up front.

**MACOM and Goertek
Establish GaN-on-Si
RF Joint Venture for**

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...

Global GaN and SiC
Power Semiconductor
Market 2020 Various
Manufacturing
Industries: Mitsubishi
Electric Corporation,
MACOM, Alpha and
Omega Semiconductor,
Infineon Technologies
AG, Cree and Other
Global Power Over
Ethernet (Poe) Network
Switches Market 2020
Trending vendors -
Ethernet Direct,
Korenix Technology,

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Transition Networks,
ORing ...

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