

Press Release

Teledyne e2v HiRel Electronics Technology Partner Integra Technologies begins production shipments of industry first 100 V RF GaN

Integra also expands its portfolio of 100 V RF GaN products with 7 new models for high reliability applications

El Segundo, CA – June 21st, 2022 – Integra, a leading provider of innovative RF and Microwave Power solutions that help make a safer and more connected world, today announced it has begun production shipments to US and European customers of its groundbreaking 100 V RF GaN technology. Tom Kole, Integra’s Vice President of Sales and Marketing, said “in collaboration with our customers, our system engineers have helped design new radar architectures that take full advantage of the benefits of our third generation 100 V RF GaN technology. It’s exciting to see Integra’s 100 V RF GaN products move into production with customers as it signifies another industry first.”

Integra also announced expansion of their 100 V RF GaN product portfolio with the introduction of 7 new products for avionics, directed energy, electronic warfare, radar, and scientific market segments with power levels up to 5 kW in a single transistor. These products incorporate Integra’s 100 V RF GaN technology optimized to deliver the highest power and efficiency in a single transistor while maintaining reliable operating junction temperatures. Combined with Integra’s thermally enhanced patents and transistor design expertise, these products offer reliable operation with a MTTF of 10 million hours. Suja Ramnath, Integra’s President and CEO, said “Integra has spent a decade innovating, maturing and commercializing our groundbreaking 100 V RF GaN technology. Building upon our 25-year heritage of semiconductor innovation, this 3rd generation 100 V RF GaN continues to extend our technical and market leadership.”

Additionally, Integra’s partner Teledyne e2v HiRel is offering high reliability options for all of Integra's 100 V RF GaN power devices and pallets targeted at the defense market. Brad Little, Vice President and General Manager of Teledyne e2v HiRel, said, “Our space customers can benefit from Integra’s 100 V RF GaN products combined with Teledyne’s expertise and long heritage providing space RF components. These innovative products offer space payload engineers state-of-the-art power devices for insertion into their applications.”

New 100V RF GaN parts introduced:

Part Number	Description	Market
IGW4000	100 V, Ultra-Wideband Multi Chip Module	Electronic Warfare
IGN1012S2500	100 V, 2.5kW L-Band Transistor	Directed Energy
IGN1030S3100	75 V, 3.1 kW L-Band Transistor	Avionics
IGN1030S3600	100 V, 3.6 kW L-Band Transistor	Avionics
IGN1313S3600	100 V, 3.6 kW 1.3 GHz Transistor	Scientific
IGN1214M3200	75 V, 3.2 kW 1.2-1.4 GHz, L-Band Transistor	Radar
IGN2729M1500	100 V, 1.5 kW 2.7-2.9 GHz, S-Band Transistor	Radar

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ABOUT TELEDYNE E2V HIREL ELECTRONICS

Teledyne e2v HiRel innovations lead developments in space, transportation, defense, and industrial markets. Teledyne e2v’s unique approach

involves listening to the market and to the application challenges of customers and partnering with our customers to provide innovative standard, semi-custom or fully custom solutions, bringing increased value to their systems. Teledyne e2v HiRel Electronics is part of the Teledyne Defense Electronics Group. www.tdehirel.com

ABOUT INTEGRA TECHNOLOGIES, INC.

Founded in 1997, Integra is a leading innovator of RF and Microwave high power semiconductor and pallet solutions for mission-critical applications, including state-of-the-art radar, electronic warfare, and advanced communications systems. www.integratech.com.

Media Contact:

Sharon Fletcher
Teledyne Defense Electronics
+1 323-241-1623
sharon.fletcher@teledyne.com