

# 2020: Year in Review



Billed as the “Year of GaN”, this unprecedented year has thrust Gallium Nitride (GaN) into the limelight as demand for data centres grew, as did the rise of compact yet more powerful mobile chargers. Having expanded our footprint and alliances in GaN-on-Si wafer fabrication and technologies for power, radio frequency, and sensor devices, we remain committed to a “new normal” in 2021 - for an **energy efficient and sustainable world**.



## US\$73mil committed to develop GaN Epi Centre in Singapore

IGaN expands EPI production capacity and mass production of 8” GaN fabrication technologies with partners. Scheduled for operationalisation in mid-2021, the Epi Centre capitalises on demands in new applications and next-generation technologies in power, renewable energy, 5G, wireless communication, and data centres - which require high switching frequencies, efficient energy conversion and higher power densities.

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## Low Conduction Loss with 150MM GaN-on-Si Epiwafer for RF Applications

IGaN’s EPI growth technology minimises parasitic loss, meeting industry requirement for 150mm GaN HEMT-on-Si for RF applications. We also employ a quick method of screening-out poor-performing GaN epiwafers, potentially saving customers expensive scrappage and wastage of processed wafers and packaged devices downstream. The RF Epistack on 200m substrates will be available to customers by end of Q1 2021.



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## IGaN and A-PRO Semiconductor collaborates on 650V GaN Device Development on 200MM Platform

Leveraging IGaN’s proprietary GaN Fabrication technology, the partnership strengthens A-PRO Semicon’s commercialisation strategy in Power/RF devices and modules/systems - in the combined effort of producing robust 650V E-mode GaN power transistors for automotive and industrial applications.

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## Interview: Silicon is Reaching its Limit. What’s Next? (Business Times Singapore)

Credited as the only firm in Singapore on the GaN train right now, and one of the few in world with proven capabilities in growing GaN crystals on silicon wafers, CEO Raj Kumar shares his insights on what it takes to lead the charge in an industry looking to strengthen GaN commercialisation and adoption.



[Interview](#)

## Other top news across our Group

### CompoundTek

#### Launch of SEA region’s First State-of-the-Art, Silicon Photonics Testing Services Hub in Singapore

Offering production and engineering test services accessible to commercial industry players. The on-wafer level automated SiPh Optical/Electrical/RF testing facility is manned by international experts in manual and automatic SiPh testing on both 8” or 12” wafers.

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### IGSS

#### Partnership with D-SIMLAB Technologies

Designed to enhance semicon wafer fab site performance, partnership combines IGSS’ [“Build-Operate-Manage-Transfer” model](#) and D-Simlab’s Business Analytics and Process Optimisation software solutions

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