



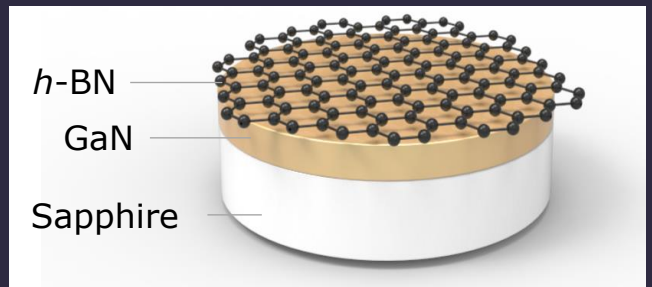
Future Semiconductor Business

2D-GaN Template

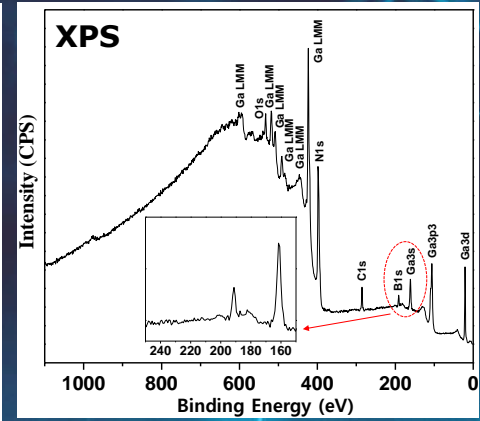
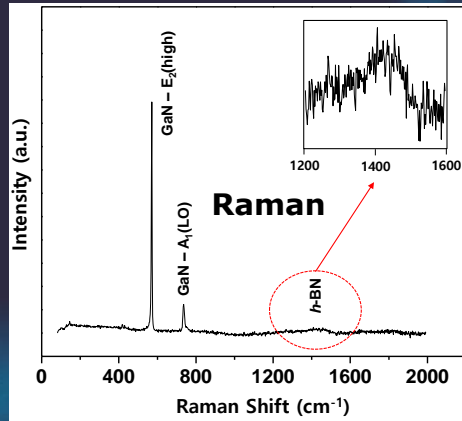
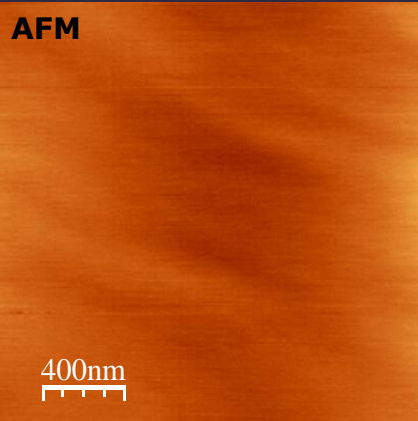
FSB 2D templates for **Remote Epitaxy** and **2 Dimensional Material based Layer Transfer (2DLT)** are designed to facilitate a large area and high-quality single crystalline GaN epi-wafer for solution of high performance power and RF devices.

MBE based 2D templates with your GaN epitaxial growth can provide merits as follows;

- Large scale and high-quality GaN epi-wafer
- Lift off ready GaN epilayer
- Fast layer release (~ 1 sec) by 2D materials



2 inch 2D (h-BN)-GaN template



Types of 2D Materials	Hexagonal Boron Nitride (h-BN)	Graphene
Template Structure	2D (Graphene or h-BN) / GaN on Sapphire or Silicon	
Available Sizes	2" to 4"	2" to 4"
Useable Surface Area	≥ 90 %	≥ 90 %
Surface Finish	< 0.2 nm RMS	< 0.2 nm RMS

Other thickness and size options available upon request