











Evolving Design Complexity & Integration



Assembly - Today

Gerber Design Touch, LED, Power Controls

PCF

Complex SMT Placement/Tes



Integrate PCBA, Light Guides and Injection Molded Part at High Volume

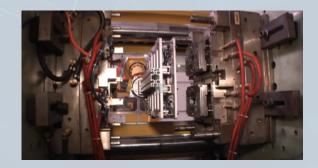
Illustrator Desig Graphics Multiple SKUs Languages Colors Button Locations

Icon Graphics Labe



Graphics Label Injection Molded @ Facility 2 or 3





Assembly - Tomorrow

Integrated Design Graphics + Power, Controls, Touch, LED Multiple Languages Colors Button Locations SMT Pads

Icon Graphics Labe



PE Label



Add FHE/LED/Test



Integrated Label Injection Molded





Ref uniquarta



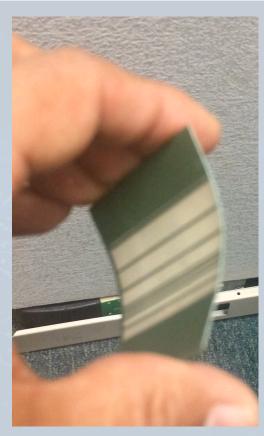
3d Printing – Traces to PCBs





3d Printed 3d Shape (Phone Cover)

3d Printed Flat Shape (single/multi layer PCB)



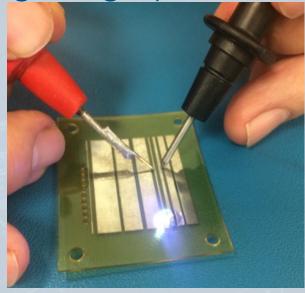
3d Printed Flexible Shape (PCB)

Ref: Nano dimension/nscryptUSF

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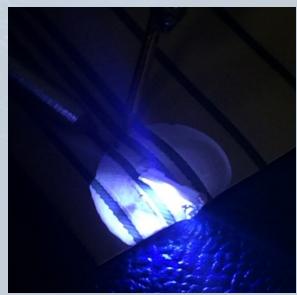
3d Printing – Integrating Hybrid Electronics

3d Printed 3d Shape (Phone Cover)
+ Rigid Hybrid Electronics



3d Printed Flat Shape (PCB) + Rigid Hybrid Electronics

3d Printed Flexible Shape (PCB) + Rigid Hybrid Electronics





Thank You girish_wable @jabil.com

