

Flexible Hybrid Electronics & Micro Assembly Technologies



DOMICRO
MICRO ASSEMBLY TECHNOLOGIES

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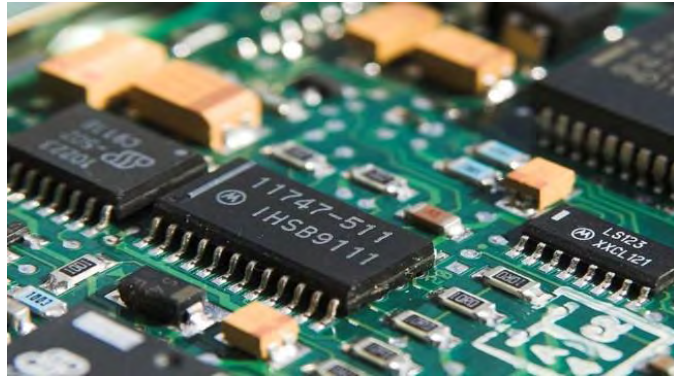
www.domicro.nl
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TREND IN ELECTRONICS TOWARDS FHE

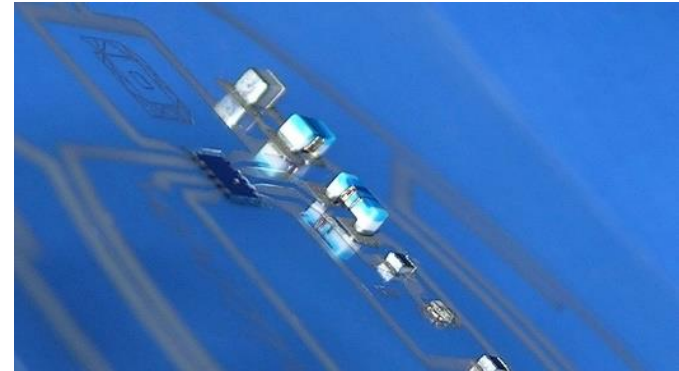
Conventional electronics

- Rigid PCBs
- Suitable for very complex applications
- Extended manufacturing capability



Flexible Hybrid Electronics

- More and new applications
- Suitable for integrated technology form-factor
- Additive technology





DOMICRO
MICRO ASSEMBLY TECHNOLOGIES

FLEXIBLE HYBRID ELECTRONICS

MICRO ASSEMBLY
TECHNOLOGY

INKJET PRINTED
ELECTRONICS

ADVANCED
PACKAGING

DOMICRO COMPANY PROFILE

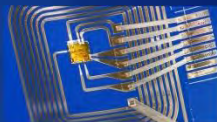
DoMicro BV is a technology company providing innovative manufacturing technology, application solutions and micro assembly technology for flexible hybrid electronics (FHE) and micro devices. More information: www.domicro.nl



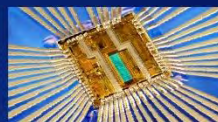
Automotive
Inmould



MedTech
Microfluidics



Wearables



Semicon
Micro Assembly



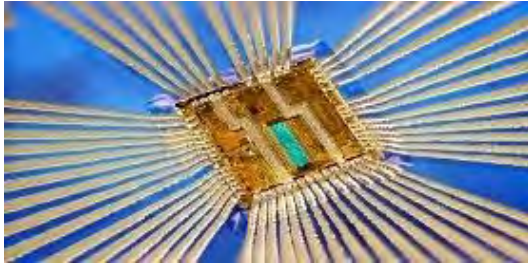
Solar



PCBA
Printing



Flexible Electronics
Printing



Technology consultancy

Contract research and development

Development of prototypes

Application development and electronic design

Developing proprietary technology

IP in manufacturing process to be marketed and licensed to key customers worldwide.

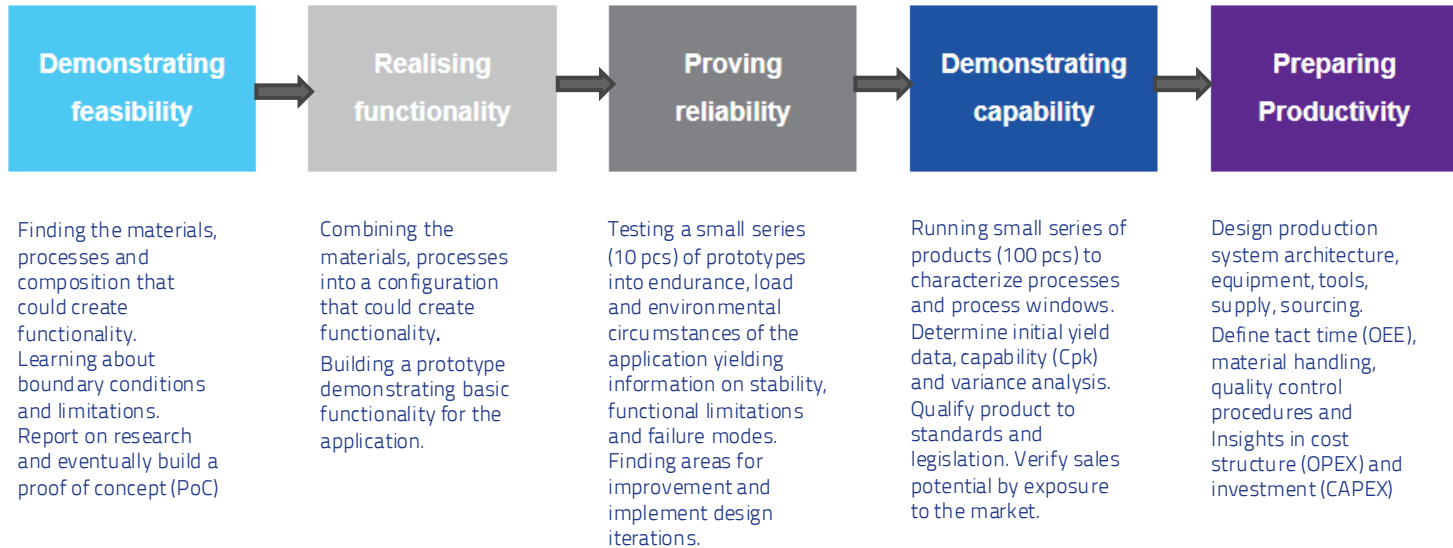
Long-term customer partnerships

Driving innovation via research & development into proof of concepts and proto realization.



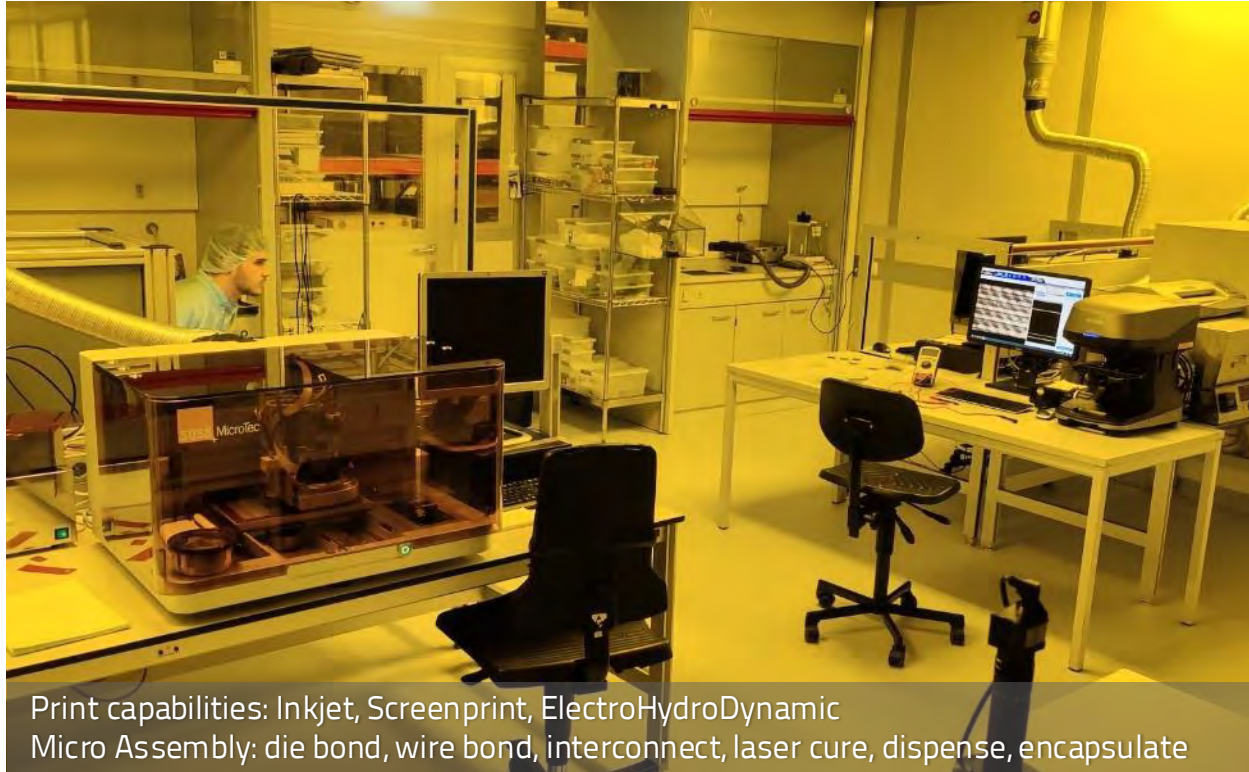


GENERAL PRODUCT DEVELOPMENT METHODOLOGY





MICRO ASSEMBLY & PRINTED ELECTRONICS LAB



Print capabilities: Inkjet, Screenprint, ElectroHydroDynamic
Micro Assembly: die bond, wire bond, interconnect, laser cure, dispense, encapsulate



Inkjet printed wirebonding



Micro positioning and die bond



System integration electronics



Electrojet™ Turn-key additive manufacturing systems Multi-layer PCB printing for electronics

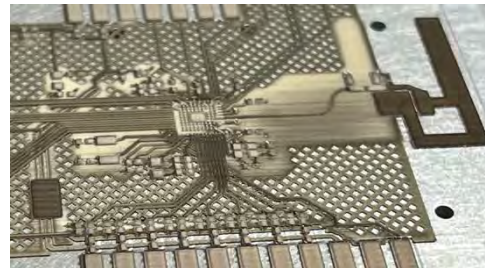


Product specifications	ElectroUV3D-1216 (Desktop)	ElectroUV3D-3200 (Production)
Feature size/spacing	100 µm / 200 µm	100 µm / 200 µm
Layer to layer accuracy	10 µm	10 µm
Throughput	n.a.	16m ² /h (2 printheads)
Printing platform	30,5 cm x 40,6 cm (12" x 16")	90 cm x 60 cm (36" x 24")
Equipment dimensions	96,5 cm x 88,9 cm x 61 cm (38" W x 35" D x 24" H)	200 cm x 133,2 cm x 78,7 cm (78,6" W x 52,4" D x 31" H)
Weight	60 kg	155 kg



Multi-Material, Multi-Layer Capabilities

ElectroJet™ equipment and inks enable digital printing of advanced particle-free silver conductive inks and UV-curable dielectric insulating/building inks on low temperature. The platform features inline LED UV curing and inline heat sintering. Capabilities of the inkjet printed conductive inks match traditional etched PCB's, thus providing a more sustainable match with current applications.



Benefits

Fast prototyping Flexibility to design, prototype and produce compatible with the majority of digitally printed electronic applications, keeping your IP safe.

Performance Multi-layer capabilities & bulk silver conductive inks for unparalleled high performance.

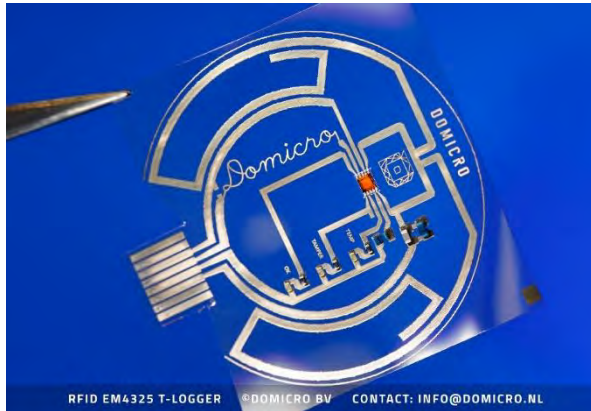
Sustainable Digital additive manufacturing inkjet printing process replaces multiple conventional production steps by depositing only the required material, significantly reducing circuit dimensions.



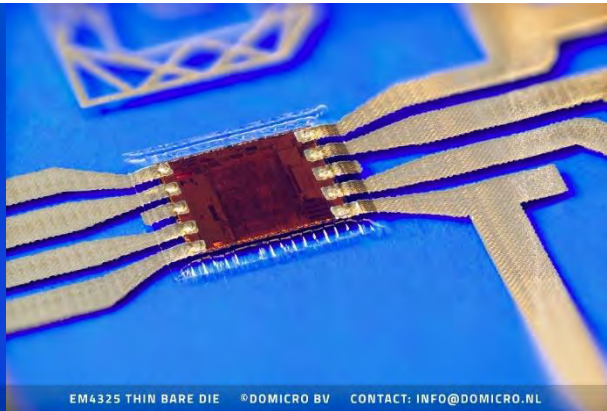
ElectroJet™
Additive Printed Electronics



FHE TECHNOLOGY DEMONSTRATORS



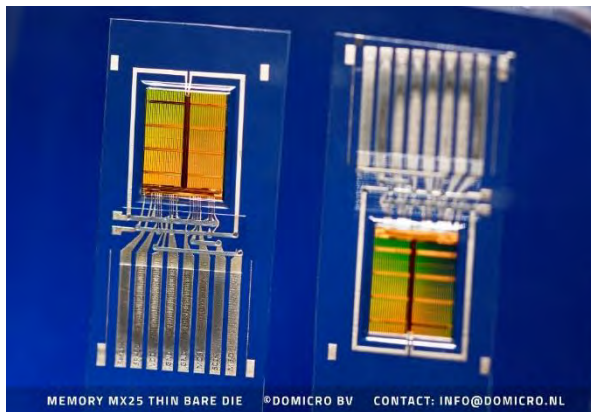
RFID EM4325 T-LOGGER ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



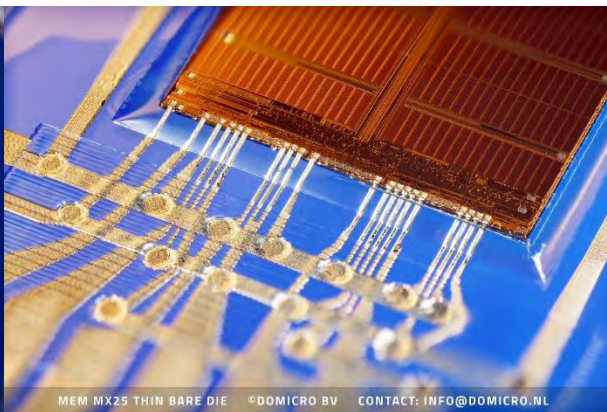
EM4325 THIN BARE DIE ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



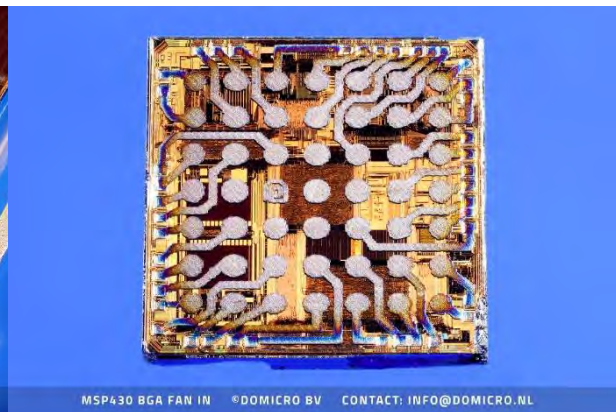
MICRO CONTROLLER FAN-OUT ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



MEMORY MX25 THIN BARE DIE ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



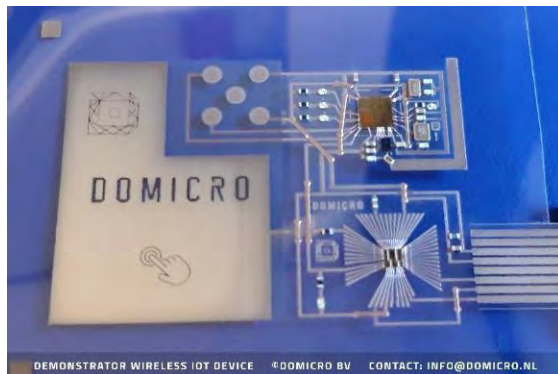
MEM MX25 THIN BARE DIE ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



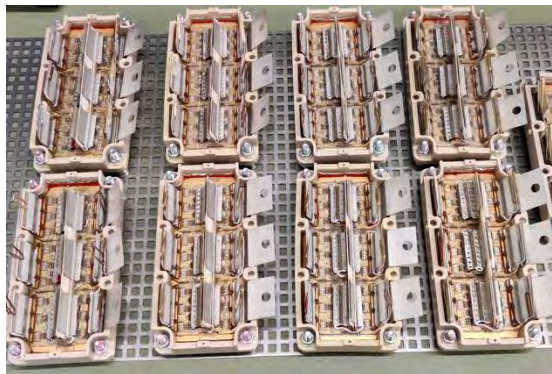
MSP430 BGA FAN IN ©DOMICRO BV CONTACT: INFO@DOMICRO.NL



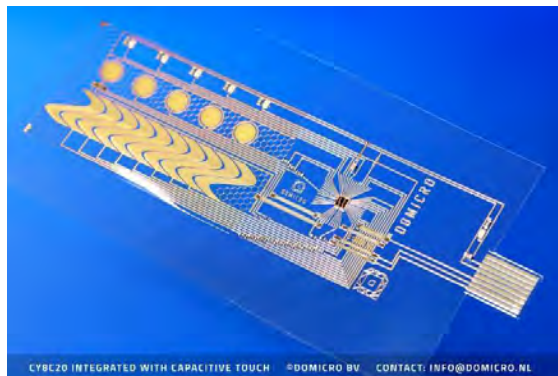
APPLICATIONS



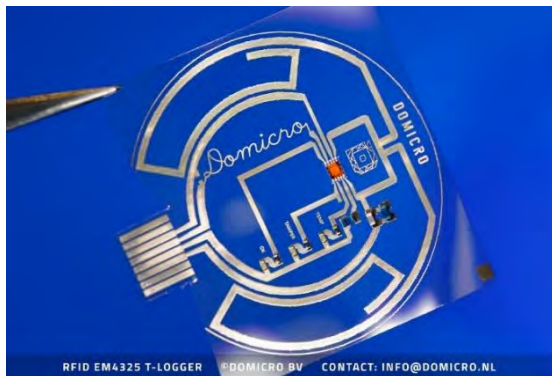
DEMONSTRATOR WIRELESS IOT DEVICE @DOMICRO BV CONTACT: INFO@DOMICRO.NL



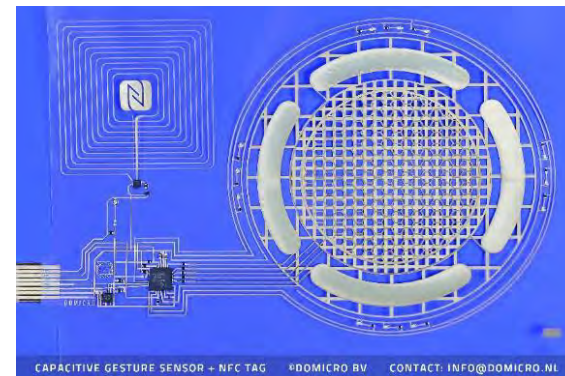
SEMI-TRANSPARENT TOUCH PANEL @DOMICRO BV CONTACT: INFO@DOMICRO.NL



CY8C20 INTEGRATED WITH CAPACITIVE TOUCH @DOMICRO BV CONTACT: INFO@DOMICRO.NL



RFID EM4325 T-LOGGER @DOMICRO BV CONTACT: INFO@DOMICRO.NL

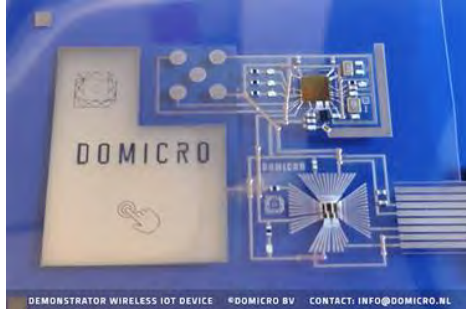


CAPACITIVE GESTURE SENSOR + NFC TAG @DOMICRO BV CONTACT: INFO@DOMICRO.NL



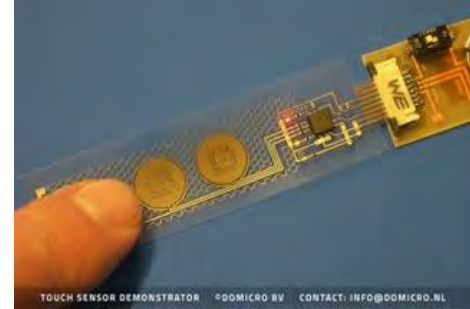
DOMICRO REFERENCES

Wireless IoT (*white paper*)

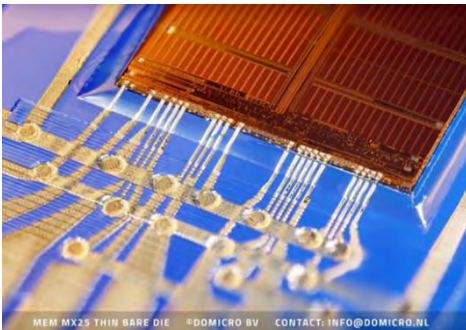


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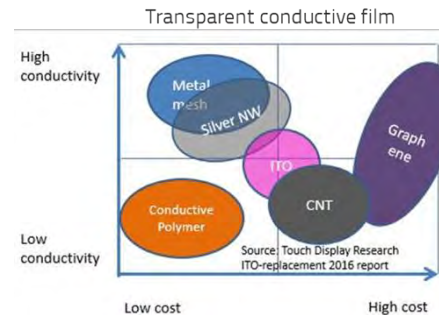
Touch sensor (*white paper*)



Printed wirebonds (*video*)



EHD printing (*video*)





STRATEGIC BUSINESS RELATIONS

Innovation Funding



Co-funded by
the European Union



**METROPOOL
REGIO
EINDHOVEN**

Provincie Noord-Brabant



Value-added reseller Europe



Strategic Business Partners



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