



NANO DIMENSION

Electrifying Additive Manufacturing®



# DragonFly IV

RESHAPING THE ELECTRONICS INDUSTRY WITH  
ADDITIVELY MANUFACTURED ELECTRONICS

Design flexibility beyond the traditional boundaries  
Breakthrough solution for traditional development challenges  
One-stop shop for design and manufacturing



**RESHAPE**

Performance



**RESHAPE**

Development Cycles



**RESHAPE**

Form Factor

## PRINTER CAPABILITIES

<b>Build Volume</b>	160 mm x 160 mm x 3 mm
<b>Inks</b>	Optimized silver nano particles and dielectric inks
<b>Supported File Formats</b>	All major ECAD and MCAD Software, ODB++, Gerber & Excellon, STLs
<b>Resolution</b>	18 µm (x), 18 µm (y), 10 µm (z)
<b>Min. Line/Space</b>	75 µm traces/ 100 µm spacing
<b>Min. BGA Pitch</b>	350 µm
<b>Min. Via</b>	150 µm
<b>Min. Dielectric Layer Thickness</b>	10.0 µm
<b>Min. Conductive Layer Thickness</b>	1.18 µm
<b>Conductivity (Relative to Copper)</b>	30% +/-5%
<b>Dielectric Constant (Dk) @ 2 GHz/15 GHz</b>	2.77 / 2.78
<b>Tangential Loss (Df) @ 2 GHz/15 GHz</b>	0.015 / 0.018

## PRINTER SPECIFICATIONS

<b>Dimensions</b>	1,400 mm x 800 mm x 1,800 mm
<b>Weight</b>	520 kg, (1150 lbs)
<b>Power Supply*</b>	230 VAC, 20 A, 50–60 Hz
<b>Network Connectivity</b>	Ethernet TCP/IP 10/100/1000
<b>Operational Humidity</b>	Above 35% non-condensing
<b>Operational Temperature</b>	18°C (64°F) to 25°C (77°F)
<b>Regulatory Compliance</b>	UL, CE, FCC
<b>Deposition Technology</b>	Piezo drop-on-demand inkjet
<b>Number of Printheads</b>	2, one for each ink: conductive and dielectric
<b>Software</b>	FLIGHT Software Suite (Design, Verification, Pre-Production)

\* Must use UPS (Uninterruptible Power Supply)

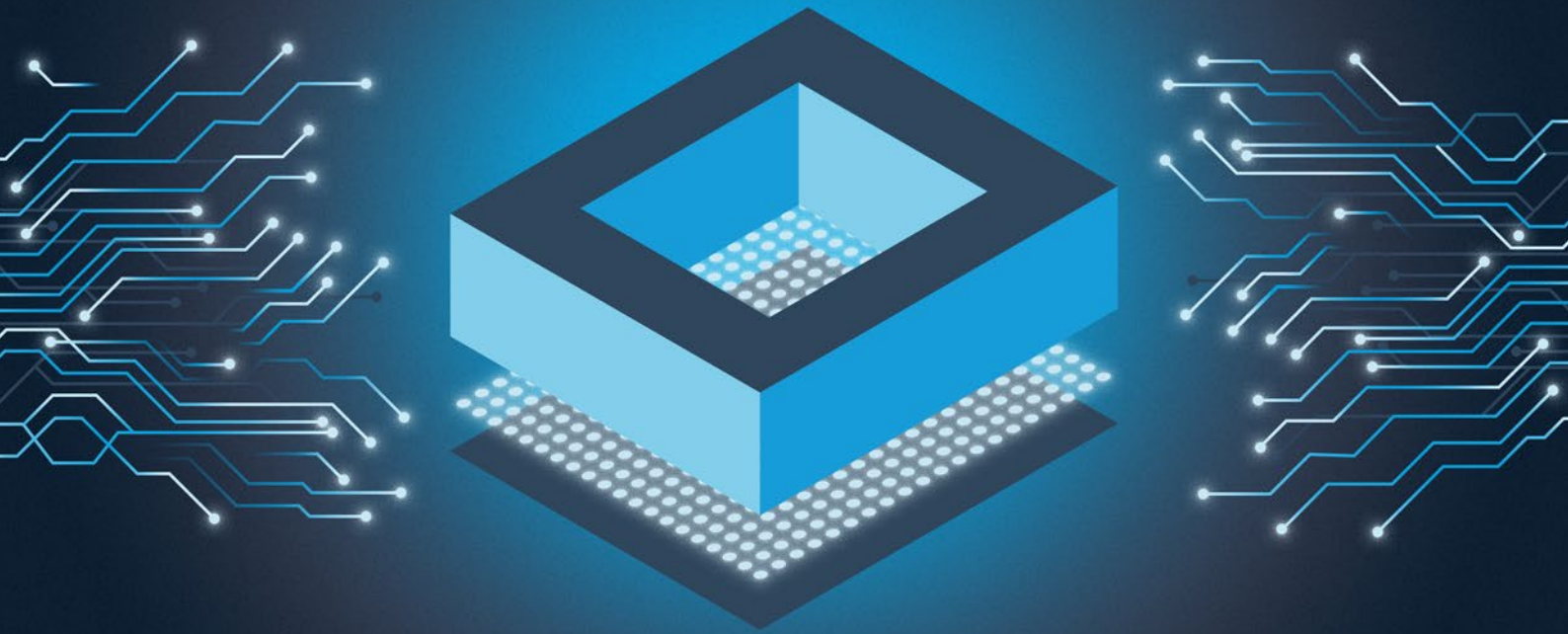
DragonFly<sup>IV</sup>

www.nano-di.com  
sales@nano-di.com  
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NANODIMENSION  
**FLIGHT**

PLAN - CHECK - CONTROL

**ENABLING THE THIRD DIMENSION IN  
ELECTRONICS – 2D TO 3D**

Enable

**3D AME\*  
DESIGNS**

for electro-mechanical devices

Ensure

**HIGH QUALITY  
PRINTING**

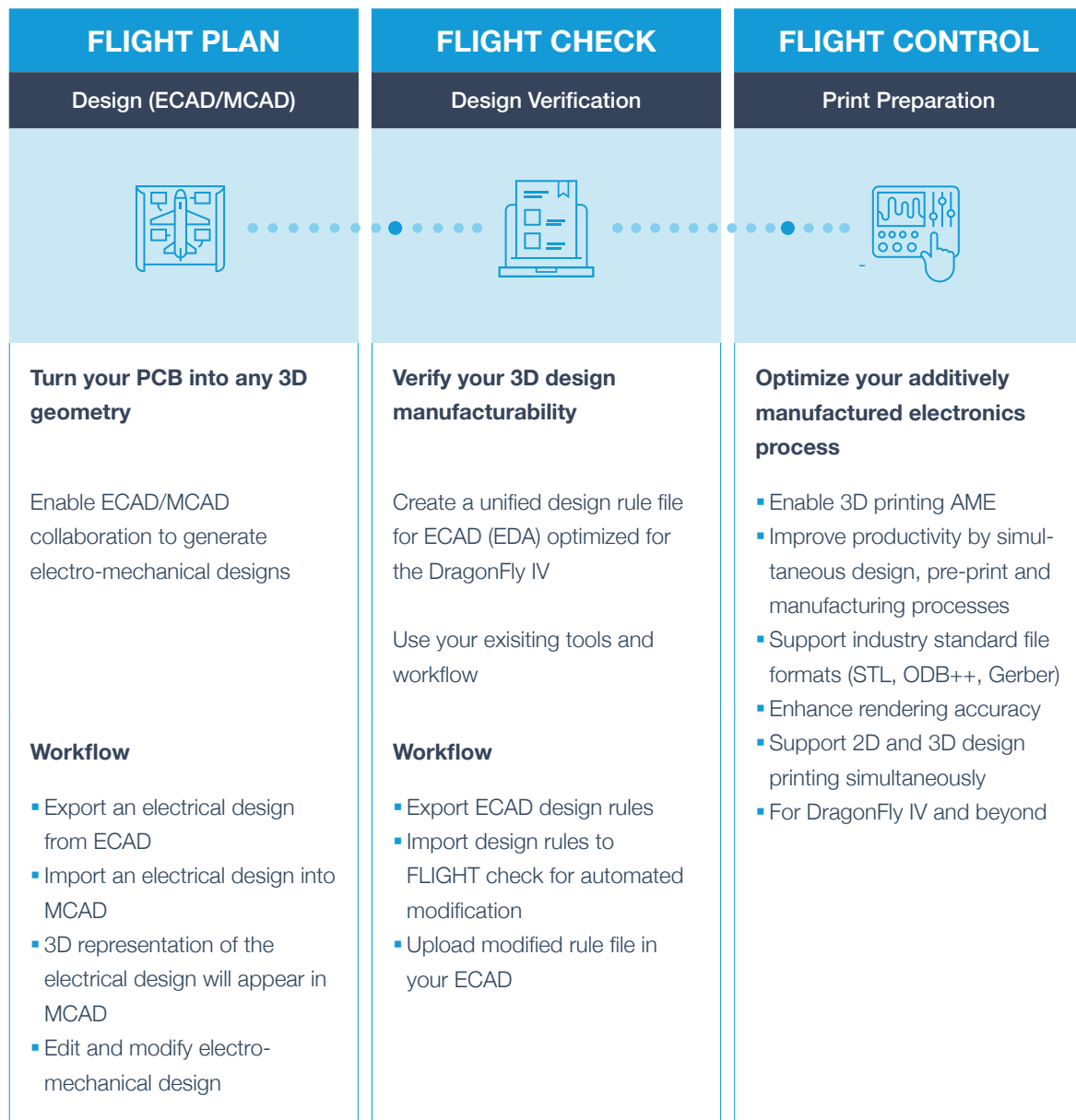
from design to  
manufacturing

Shorten

**DEVELOPMENT  
PROCESSES**

and time-to-market

# Seamless Design to Manufacturing with FLIGHT Software Suite



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**FLIGHT**  
PLAN - CHECK - CONTROL

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 sales@nano-di.com  
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