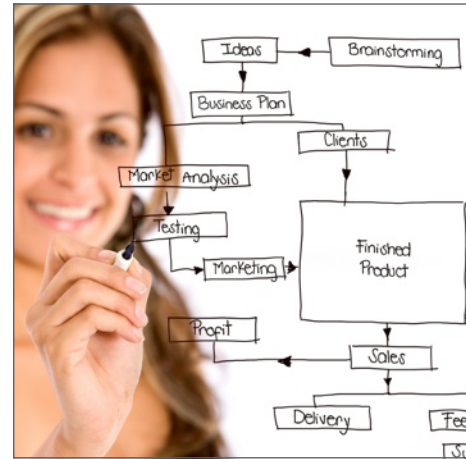


Product Development Design Expertise Service Data Sheet

Version 2

Polymertronics' design expertise is for customers who wish to develop concept products and products for market.

Polymertronics' team consists of electronics engineers, scientists and artists. This unique blend of capabilities provides a complete product design life-cycle package.

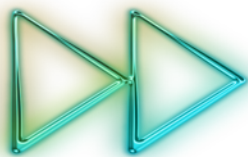


Benefits Of Polymertronics' Design Expertise

1. Out-of-the-box and simple to use products
2. Prototype, beta and market-ready OLED systems
3. Future proof designs for easy upgrades
4. Fast to market product development
5. Regulatory compliant product designs

Product Development Design Suite

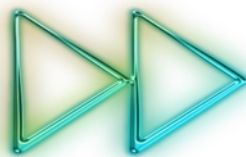
Benefiting from over twenty years of electronics design experience, our design suite is built around being fast-to-market with what can be achieved with today's technology. The three design phases has been designed to reflect the state that printed electronics technology is at in the world and for what is on the horizon:



1. Concept Products

Electronics design service to test new ideas:

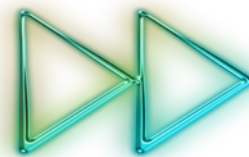
1. Very low cost
2. Functional hardware
3. Functional software
4. Upgradable designs



2. Beta Products

Test new ideas in the market place:

1. Early return on investment
2. Upgradable designs
3. Representative of the production device



3. Production Ready

Product design for the market:

1. Upgradable products
2. Specialist components
3. Technical support
4. Regulatory compliant

Product Development Design Suite In Detail

Polymertronics' design suite is for developing new products. Each project is assessed for an appropriate schedule of events with costs:

1. Concept Product Stage (CPS)

- i. Functional prototype hardware
- ii. Software emulation of hardware using programmable chips
- iii. Prototype is future-proofed for expansion, updates during other product development stages
- iv. Uses off-the-shelf technologies to create an organic-inorganic hybrid solutions
- v. Aesthetics for Beta stage considered and implement for Concept stage where possible
- vi. Desktop market research
- vii. Intellectual property rights search for patents, design rights and copyright
- viii. Road map for product development

2. Beta Product Stage (BPS)

- i. CPS functionality built into BPS
- ii. Hardware and software representative of final product
- iii. Product future-proofed for expansion, updates during other product development stages
- iv. Uses off-the-shelf technologies.
- v. Technical support
- vi. Pre-compliance of product's regulations for EMC, OLED drive electronics and product safety
- vii. Improved aesthetics, proto-mold parts and metalware
- viii. Document IPR
- ix. Applicable parts of CPS cost discounted against BPS cost

3. Product Ready Stage (PRS)

- i. CPS functionality and BPS pre-production built into PRS
- ii. Hardware and software are the final product
- iii. May have specialist components designed, hybrid organic-inorganic technology
- iv. Hardware is future-proofed for simple upgrades
- v. Remote electronics connectivity for support
- vi. Full compliance of product's regulations for EMC, OLED drive electronics and product safety
- vii. Advanced aesthetics, plastic moulded parts and metalware
- viii. Applicable parts of CPS and / or BPS cost discounted against BPS cost

Polymertronics' Expertise

Polymertronics' products are designed to be out-of-the-box and simple to use. The product range is for businesses and educators who want to understand OLED technology and to develop products for market:

1. Flexible, rigid and inkjet printable OLED Science Kits for experimenting with OLEDs
2. Ultraviolet curing expertise and equipment for printable electronics
3. Electronic drivers for optimizing OLED performance
4. Solid state lighting development products and expertise
5. Full product development capability for applications
6. *Center-Point* for finding resources and answers to queries

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The Institution of Engineering and Technology
Polymertronics is a business partner of the IET technology community



Note₁ : Polymertronics reserves the right to amend this product's specification and/or look of the product without updating this data sheet.

Note₂ : Polymertronics is a subsidiary of E²M Technology Limited, United Kingdom.