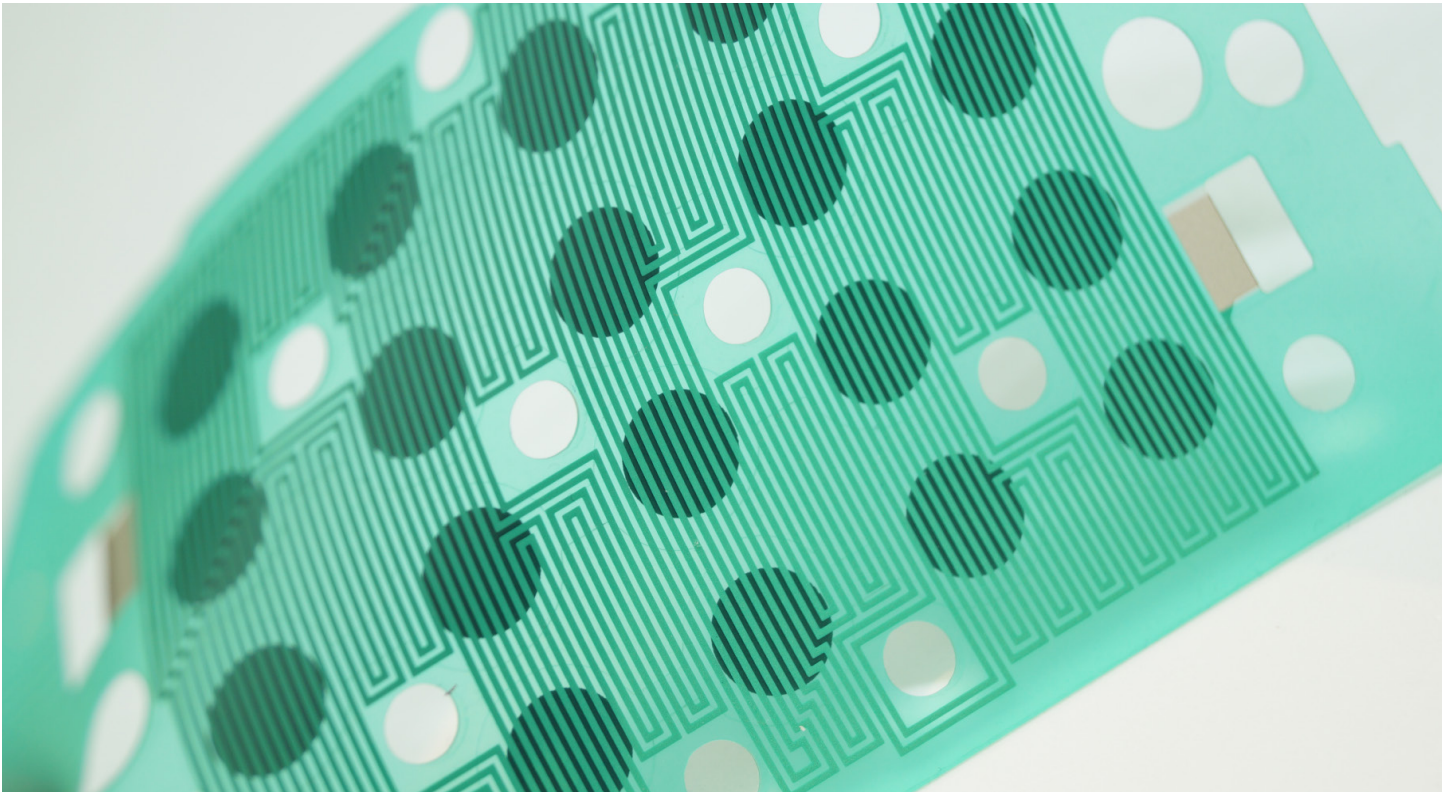


Tamper Proof Circuits



The only real way of protecting your customers, is by protecting their data.

e₂ip's Tamper Proofing Circuits are a data protection solution designed for human-machine interface (HMI) scenarios where sensitive data are stored in electronics chips. The success of this technology is the unique pattern design: closely-spaced traces are printed on a serpentine circuit with thin, flexible PET film.

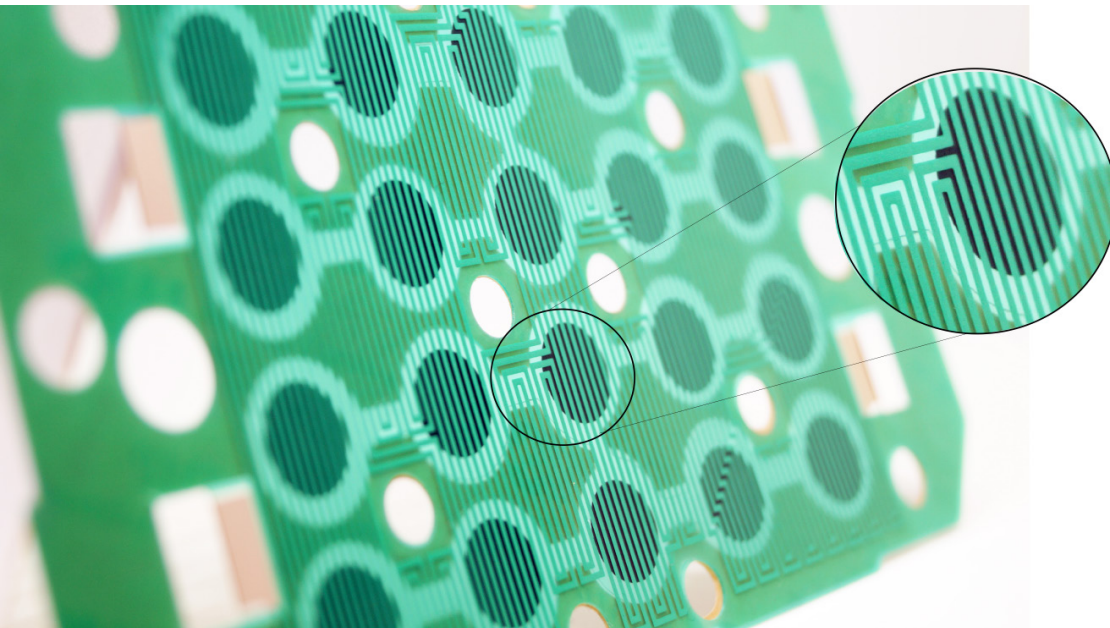
Attempts to breach the circuit will in turn break the circuit continuity. Any physical intrusion, attempt to open the device, or chemical attack is immediately detected, with critical data remaining safe and protected.

Applications

- Defense electronics
- Aerospace devices
- Bank Crypto Keys
- ATM Machines
- Public Services

Key Features & Benefits

- Highly secure
- Thin and flexible
- Cost-effective
- Entirely customizable



Example of a serpentine circuit

Technical Specifications

Printing Process	Silk-Screen printing
Available inks	Silver flake, silver molecular, PEDOT
Substrates	Films (0.13 mm – 0.51 mm): PET (polyester), PEN, PC, Polyimide Sheets: (0.51 mm & up) PET, PEN, PC
Maximum circuit size	56 cm x 82 cm
Line width and spacing	Min 0.13 mm width / 0.13 mm spacing Recommended: 0.25 mm / 0.25 mm
Interface	Contact pads, ZIF tail and other options available on request.



**Transforming the surfaces we
touch in our everyday lives.**

For more information, speak with
a specialist at e₂ip technologies.

We're always looking forward to
hearing from you!

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