



Multi-electrode chips
Platform

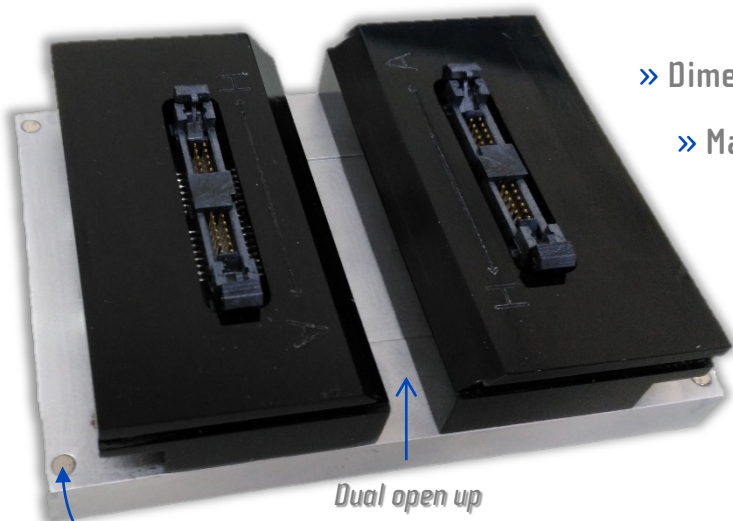
Multi-electrode Platform



The Multi-electrode chips Platform (Ref. ED-ME-CELL) provides a simple and robust interface with a multi-potentiostat for using the thin-film multi-electrode chips supplied by MicruX Technologies.

» ME-Platform connector features

The ME-Platform enables the use of **microvolume** (1 – 5 μ L sample drop per cell) with 18.5x15 mm or 37x15 mm **thin-film multi-electrode chips** supplied by MicruX Technologies.



» **Dimensions:** 70 x 95 x 25 mm (WxDxH)

» **Material:** aluminium base + two methacrylate covers (black)

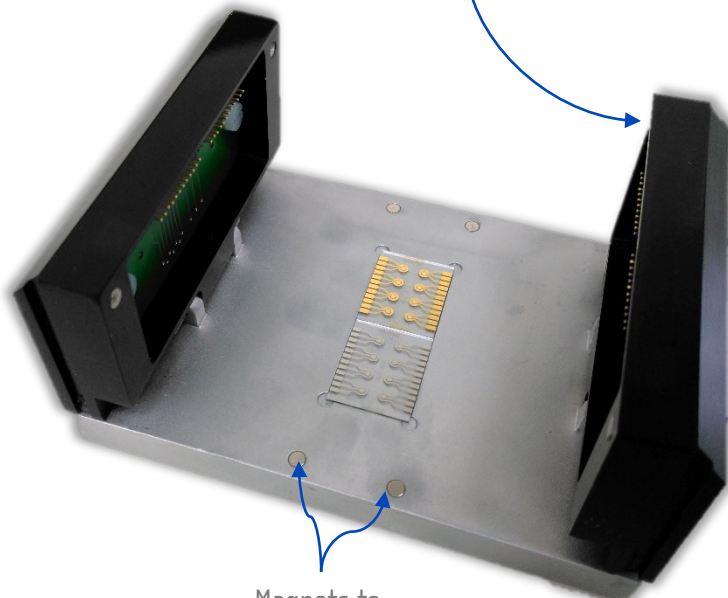
» High quality robust connector.

Magnets to keeping open

Dual open up

Covers integrating electronics

Chip accommodation



Magnets to Fix covers

» Compatible with up to two 18.5x15 mm chips or one 37x15 mm chip.

» User friendly (tool free assembly).

» Easy and fast replacement of the chips.

» Reusable – long-life.



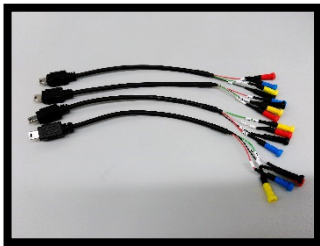
» ME-Platform multipotentiostat-interfacing

» miniUSB box / IDC cable

The main part of the platform (with header connectors at covers) is connected to two *miniUSB boxes* through *IDC cables*. Eight individual miniUSB connectors (A→H) are integrated in each box.



» Universal cable

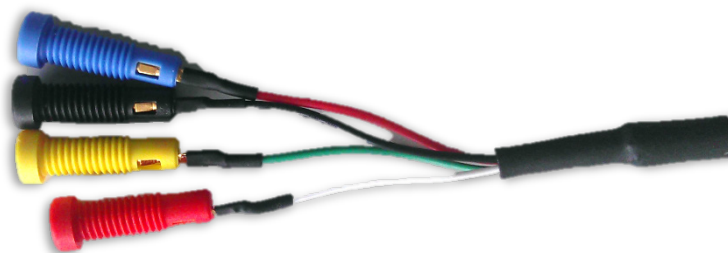


Sixteen **universal USB cables** with banana terminals are supplied for individual interfacing of each electrode with multi-potentiostat cable. Up to 48 individual connections can be accomplished (3 per each USB cable).



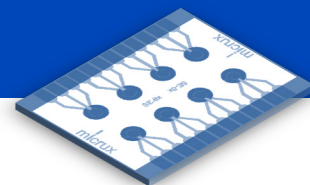
Female/male banana plug to potentiostat

miniUSB to USB box



Customized connectors to your multi-potentiostat are also available on-demand.

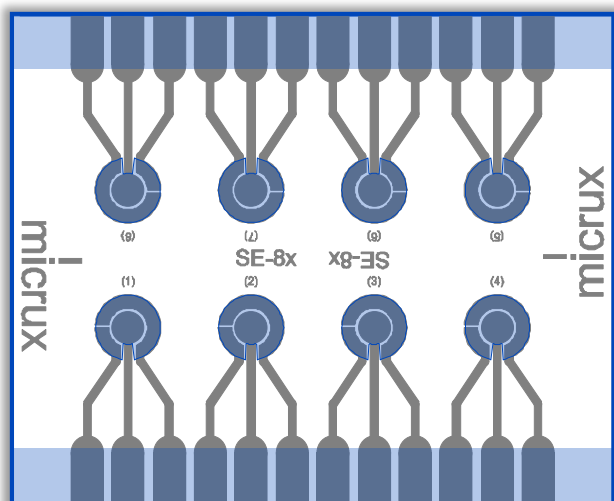
Multi-electrode Chips



» Multi-Electrodes Chips

Thin-film technologies enable the integration of multiple electrochemical cells in a single chip for multiplexing detection.

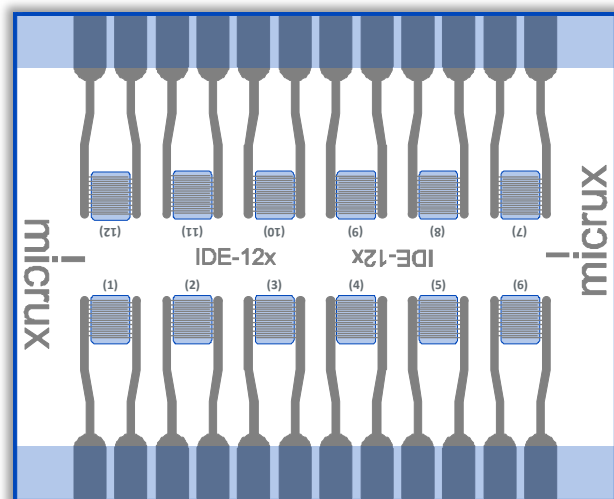
» 8x single-electrode chip



- » External dimensions: 18.5 x 15 x 0.7 mm
- » Substrate: Glass
- » Protective layer: SU-8 resin
- » Electrochemical cells: 2 mm \varnothing
- » Electrode material: Platinum or Gold

Reference	Material	WE area	Thickness
» ED-SE-8x-Pt	Ti/Pt	0.8 mm ²	50/150 nm
» ED-SE-8x-Au	Ti/Au	0.8 mm ²	50/150 nm

» 12x interdigitated-electrodes chip



- » External dimensions: 18.5 x 15 x 0.7 mm
- » Substrate: Glass
- » Protective layer: SU-8 resin
- » Electrochemical cells: 1.2 x 1.5 mm
- » Electrode material: Platinum or Gold

Reference	Material	μ Electrode width	μ Electrode gap	Number of feet per cell	Thickness
» ED-IDE10-12x-Pt	Ti/Pt	10 μ m	10 μ m	30 pairs	50/150 nm
» ED-IDE5-12x-Pt	Ti/Pt	5 μ m	5 μ m	60 pairs	50/150 nm
» ED-IDE10-12x-Au	Ti/Au	10 μ m	10 μ m	30 pairs	50/150 nm
» ED-IDE5-12x-Au	Ti/Au	5 μ m	5 μ m	60 pairs	50/150 nm

Other customized multi-electrode chips adapted to the platform can be manufactured on-demand.



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