



# Multi-electrode chips Platform

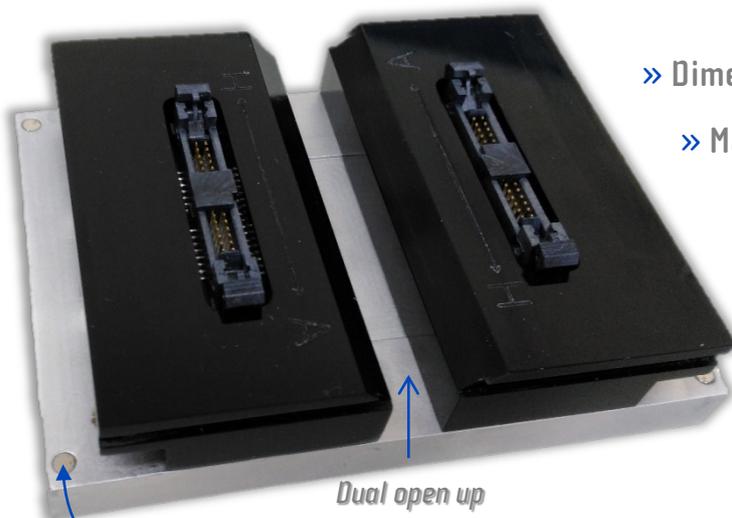
# Multi-electrode Platform



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  $\mu$ 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)

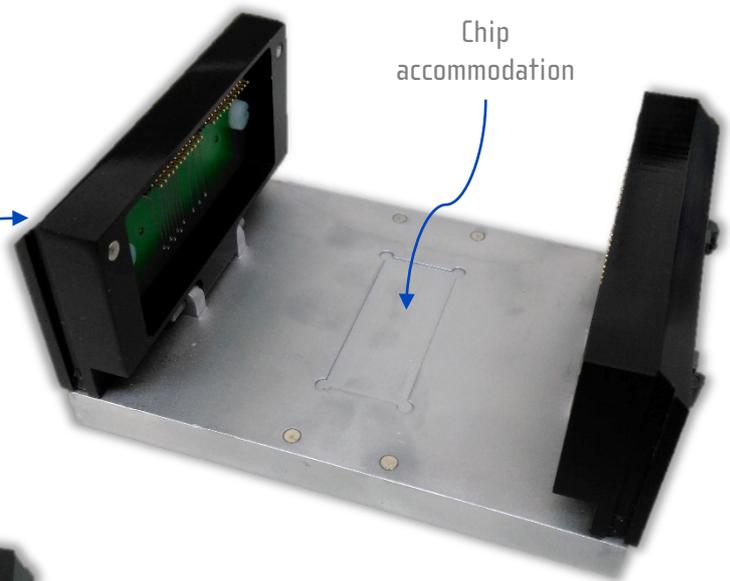
» High quality robust connector.

Magnets to keeping open

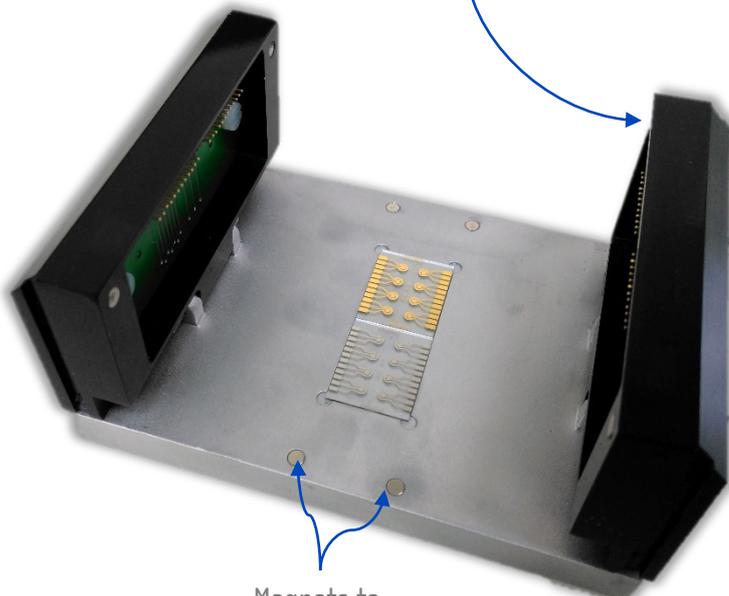
Dual open up

Covers integrating electronics

Chip accommodation



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



Magnets to Fix covers

» User friendly (tool free assembly).

» Easy and fast replacement of the chips.

» Reusable – long-life.



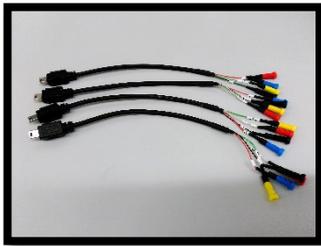
## » ME-Platform multipotentiostat-interfacing

### » 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

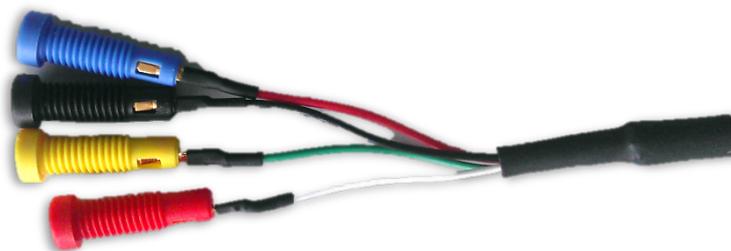


Sixteen **universal USB cables** with banana terminals are supplied for individual interfacing of each electrode with multi-potentiostat cable. Up to 48 individual connections can be accomplished (3 per each USB cable).

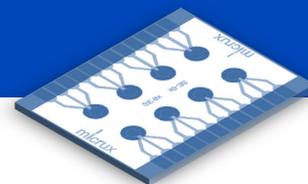


miniUSB to USB box

Female/male banana plug to potentiostat



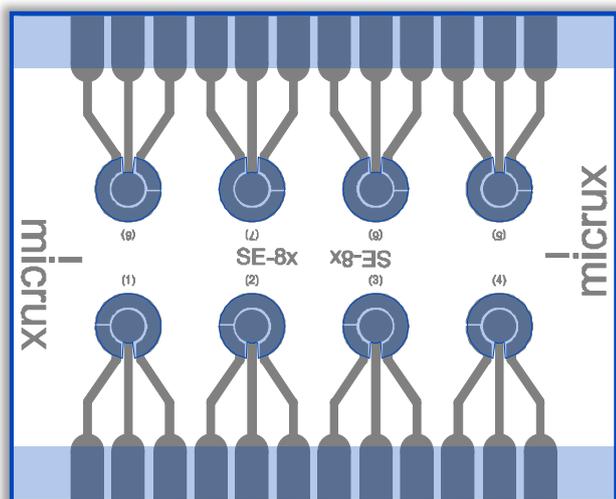
*Customized connectors to your multi-potentiostat are also available on-demand.*



## » Multi-Electrodes Chips

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

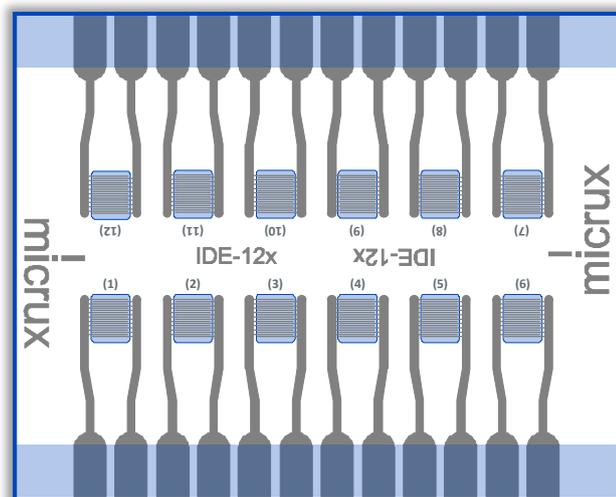
### » 8x single-electrode chip



- » 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 <sup>2</sup>	50/150 nm
» ED-SE-8x-Au	Ti/Au	0.8 mm <sup>2</sup>	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	$\mu$ Electrode width	$\mu$ Electrode gap	Number of feet per cell	Thickness
» ED-IDE10-12x-Pt	Ti/Pt	10 $\mu$ m	10 $\mu$ m	30 pairs	50/150 nm
» ED-IDE5-12x-Pt	Ti/Pt	5 $\mu$ m	5 $\mu$ m	60 pairs	50/150 nm
» ED-IDE10-12x-Au	Ti/Au	10 $\mu$ m	10 $\mu$ m	30 pairs	50/150 nm
» ED-IDE5-12x-Au	Ti/Au	5 $\mu$ m	5 $\mu$ m	60 pairs	50/150 nm

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



Mora-Garay Industrial Park · Juan de la Cierva, 2C, Bldg. # 6  
33211 · Gijón (Asturias) · SPAIN

Phone/FAX: +34 984151019

E-mail: [info@micruxfluidic.com](mailto:info@micruxfluidic.com)

Web: [www.micruxfluidic.com](http://www.micruxfluidic.com)

