

## One technology, three form factors

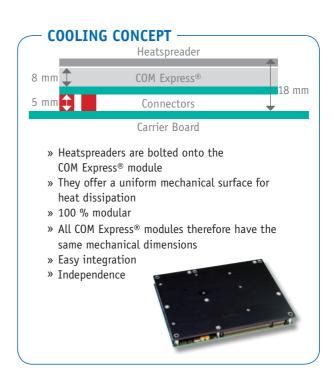
- » New pin-outs with USB 3.0 and multiple displays
- » 100 % band width from Intel® Atom™ to Quad Core
- » 100 % COMsistent, over 14 years COM experience

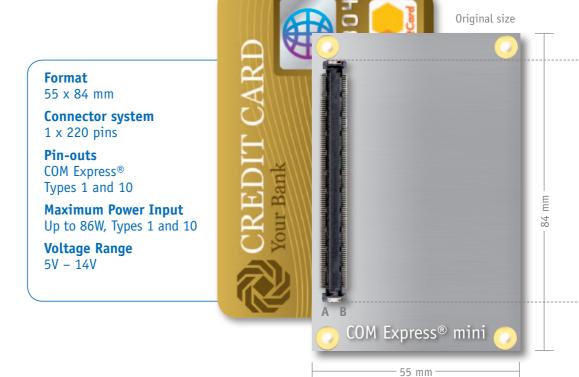


# » COM Express® by Kontron ...

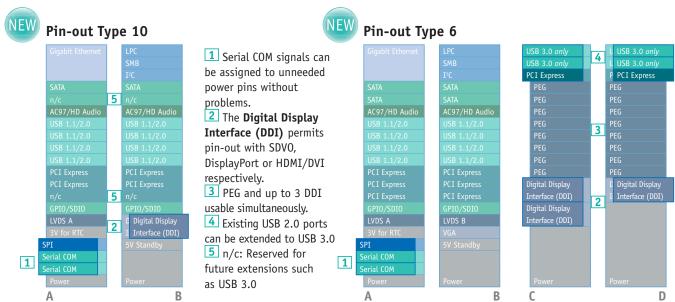
# **COM Express® mini** in credit card size

The COM Express® **mini** form factor is the smallest member of the Kontron COM family. It is just the size of a credit card. Extremely low power consumption and small format are well-suited to mobile battery-powered and above all, inexpensive applications. The well-known and proven COM Express® concepts are used. COM Express® mini modules offer maximum compatibility with COM Express® compact and COM Express® basic. Their wide-range power supply input of down to 5V make them perfect and an ideal fit for the small form factor (SFF) application area. They can also be used in extreme environmental conditions and in temperature ranges from -40 to +85° C.

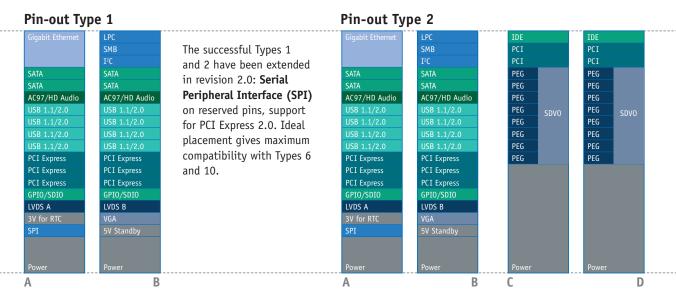




## From Revision 1.0 to 2.0 – fit for the future! New: Pin-out Types 10 and 6 with multiple displays and USB 3.0



## Pin-out Types 1 and 2.



The COM Express® specification defines different pin-outs, with Types 1, 2, 6 and 10 being the most important.

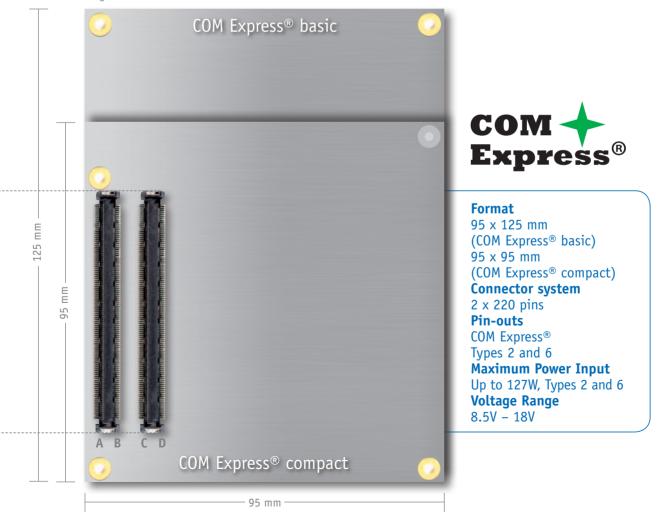
# COM Express® basic – space for a lot!

The **basic** and **compact** form factors from COM Express® are the recognized successors to the legendary ETX® form factor that in its day set the standard for COM modules. Over 14 years of COM experience means a safe investment in the future. The COM Express® basic form factor offers space to meet all requirements. Moreover, these powerful modules, with a host of features, are very easy to implement.

## **COM Express® compact –** smaller and mobile.

The official compact form factor from COM Express® is smaller and ideally suited for space-critical or mobile applications. The interfaces, pin-outs and connector placements are 100 % compatible with the COM Express® basic form factor. Even the attachment holes and cooling concept are identical. This guarantees extremely simple interchangeability on Carrier Boards and maximum protection of investment.

Original size

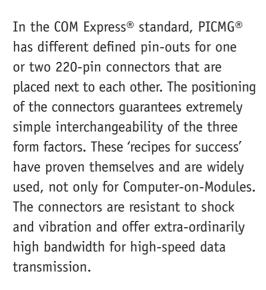


# ... your safe choice! «

# Investment protection included!

COM Express® is the first independent module standard prepared for innovative interface technologies such as USB 3.0. The new Types 6 and 10 pin-outs provide a secure future and help ensure long-term protection of your investment. COM Express® technology now has the ability to handle future developments while retaining the connector concept, the technology and maximum backwards compatibility with the established Types 1 and 2.

## The connector concept – a success factor!

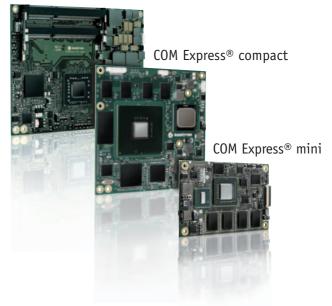


# COM Express® by Kontron – your advantages at a glance!

- » Scalable computing power
- » Scalable dimensions
- » Value-added support services
- » Over 14 years COM experience
- » Short time-to-market
- » Manufacturer independence
- » Leverage of know-how
- » Ruggedized
- » Simplified development
- » Long-term availability
- » Numerous product and services vendors

## One technology, three form factors

COM Express® basic







## » Learn more «

## ABOUT PICMG® AND COM EXPRESS® -

PICMG<sup>\*</sup>

In 1994, PICMG® (PCI Industrial Computer Manufacturers Group) was founded as a non-profit, tax-exempt organization of more than 400 member companies who collaboratively develop open specifications. They concentrate their activities on

telecommunications and industrial computing applications. The companies involved have a long history of developing leading-edge products for these industries.

COM Express® is the latest PICMG® standard – officially adopted in 2005 – for Express® Computer-on-Modules (COM). For the form factors basic, compact and mini the dimensions and the advantageous connector concept are decisive success factors. With revision 2.0, which brings a forward-looking pin-out and numerous further improvements, the COM Express® standard forms the ideal technology basis for product success that is sustainable in the long-term.

#### GET MORE OUT OF IT - WITH VALUE-ADDS FROM KONTRON

Take advantage of the broad portfolio of valueadded services from Kontron that give you a head start in embedded computing!



## Graphics COMpendium The standard for graphics output with Computer-

on-Modules (COM)



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#### **CORPORATE OFFICES**

### Europe, Middle East & Africa

Oskar-von-Miller-Str. 1 85386 Eching/Munich Germany

Tel.: +49 8165 77777 Fax: +49 8165 77385 info@kontron.com

#### North America

14118 Stowe Drive Poway, CA 92064-7147 USA

Tel.: +1 888 294 4558 Fax: +1 858 677 0898 info@us.kontron.com

#### Asia Pacific

17 Building, Block #1, ABP. 188 Southern West 4th Ring Road Beijing 100070, P.R.China

Tel.: + 86 10 63751188 Fax: + 86 10 83682438 info@kontron.cn

