

Compact and powerful DATA MODUL presents latest generation of eMotion UHD-III-G scaler boards

Munich, 01 December 2025

DATA MODUL, one of the leading specialists for display, touch, embedded, and system solutions, presents the latest generation of its [LCD controller assemblies](#) with the eMotion UHD-III-G Scaler Board family. The powerful graphics [controller boards](#) have been specially developed for demanding 4K applications, for example in the areas of digital signage and gaming and offer maximum performance with flexible integration. All components are designed for industrial use and long-term availability to meet the requirements of projects with a life cycle of several years.

The scaler boards are available in two different basic versions:

eMotion UHD-III-G is the smaller model, measuring 96x96x14mm³, while **eMotion UHD-III-G Plus** is the full-size version, measuring 120x100x14mm³.

Thanks to the latest Mediatek Scaler SOC from the MT9800 series, the eMotion UHD-III-G family supports a wide range of [display](#) interfaces: LVDS, eDP, and V-by-One.

A particular highlight of the **eMotion UHD-III-G Plus board** is the option of lossless 180° full-screen rotation at 60 Hz in full 4K resolution—ideal for dynamic, high-resolution content.

The boards can be controlled either via an OSD board with five buttons, UART, or DDC/CI. The boards also offers HDR10 support, a very compact design, and the option of flexible firmware programming, which allows easy adaptation to customer-specific applications.

Technical highlights at a glance

- High-performance graphics scaler boards for 4K UHD resolution
- Mediatek MT9800 LCD controller SOC
- Graphics inputs: HDMI 2.1 and DisplayPort 1.4
- Graphics outputs: LVDS, eDP (HBR), V-by-One (depending on SKU)
- 4K resolution at 60 Hz including 180° image rotation
- HDR10 support and 12-bit gamma correction for brilliant image quality DDC/CI and UART remote control as well as OSD board with 5 buttons
- Compact design for easy monitor integration
- Firmware update via HDMI port or USB
- Long-term availability

As a leading full-service provider, DATA MODUL supplies complete, ready-to-use display kits consisting of a display panel, scaler board, and cable set, enabling quick and easy integration into individual end devices.

Typical areas of application for eMotion UHD-III-G boards include casino [gaming](#) systems, [digital signage](#) solutions, and other applications with large-format 4K displays.

For more information, visit www.data-modul.com.

About DATA MODUL

As a passionate enabler, DATA MODUL AG does everything in its power to turn customers' visions into reality. With a comprehensive understanding of hardware, software and services as a harmonious unit, the focus is on developing customised display solutions that precisely meet the specific needs and objectives of the customer. The outstanding core competence of DATA MODUL AG lies in customising, whereby the company not only provides products, but rather tailor-made solutions with a clear market focus. With over 50 years of experience, DATA MODUL AG represents financial stability, innovative strength and international growth. Its presence at more than 20 locations worldwide and a total area of around 40,000 square meters for production, logistics and administration enables the company to respond flexibly to global challenges.

