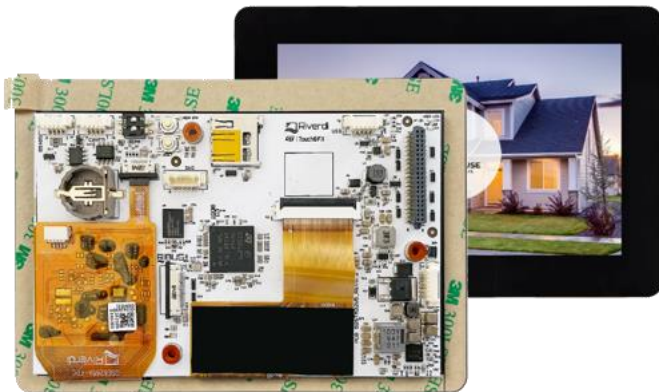


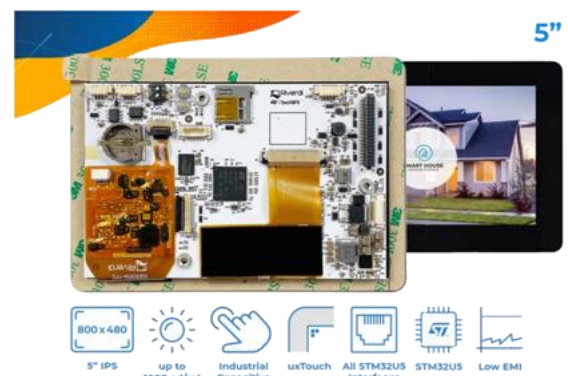
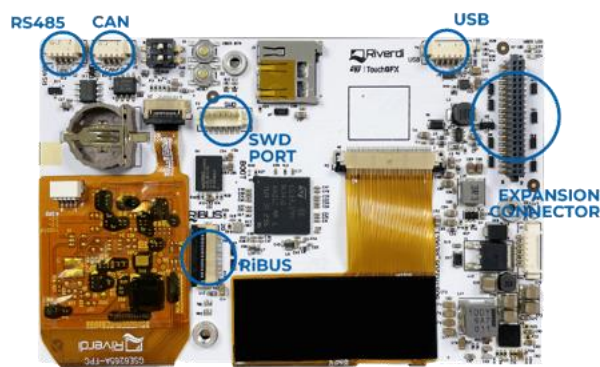
5" STM32U5-based module



Since industrial devices may need to be **small, hand-held, or fit in limited space**, Riverdi introduced the **5-inch display** to the series.

It features the latest **STM32U5G9** microcontroller, offering best-in-class performance, **ultra-low-power** efficiency, and advanced **security features**, including the **NeoChromVG GPU** for sophisticated graphical interfaces:

- **NeoChromVG GPU:** Enhances frame rate, facilitating the execution of complex UIs on MCUs.
- **Increased SRAM:** 3 Mbytes of SRAM for better performance and capacity.
- **Video Capabilities:** Supports Motion JPEG (M-JPEG) for video playback.
- **Advanced Security:** AES encryption engine for enhanced data security.
- **Comprehensive GUI Features:** NeoChromVG GPU offers advanced graphics capabilities including screen rotation, texture mapping, and optimized animations.



Key Features:

- **5-inch IPS TFT** display with full viewing angles
- High resolution of **800x480 pixels**
- High brightness at **1000 cd/m²**
- Modern frame designs: Riverdi uxTouch & aTouch
- Fully integrated **TouchGFX** support for GUI creation
- Support for **LVGL GUI libraries**
- All **STM32U5** interfaces available
- **Low power** consumption
- Versatile power supply: **6V to 48V**
- Optional industrial capacitive touch panel (PCAP) and optical bonding
- **Low EMI** emission

- Expansion connector **compatible with STM32H7 series**

Additional Links on the 5" STM32 series:



- [Product news announcement: New Riverdi STM32 Embedded Display 5" Released!](#)
- [How to get started with Riverdi STM32-U5 Embedded Display – TUTORIAL by Controllerstech](#)