

Modular I&O Solution

The modular I&O solution delivers robust interconnect solutions for immersion cooling, offering high-speed data transmission, IP68, and customizable designs for reliable, space-efficient systems.



Impressive Innovation

- ✓ Space-efficient design
- ✓ Flexible and tailored customizable display options
- ✓ High-speed data transmission up to Cat 6A, ensuring reliable and fast Ethernet connectivity
- ✓ IP68 unmated waterproof performance from the interior to the exterior, preventing dielectric oil leakage within the system
- ✓ Operating Temperature from -40°C to +80°C to perform seamlessly in extreme conditions
- ✓ Customized sealing material design to avoid coolant leakage



Unrivaled InterConnects for Harsh Environments

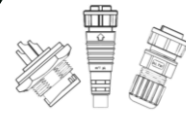
About ALTW

**3**

Production Sites
(Taiwan, China, Mexico)

**30+**

Market Applications

**90,000+**

Products

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “***unrivaled interconnects for harsh environments***”. With over 300 worldwide patents, not only does ALTW offer the broadest and widest range of rugged interconnects in the industry but also customization with the mission of “Customer Satisfaction First”. Undoubtedly, ALTW is the leader in rugged interconnects, highly recognized for its uncompromising quality, short lead time, fast and tailored service and its very competitive pricing.

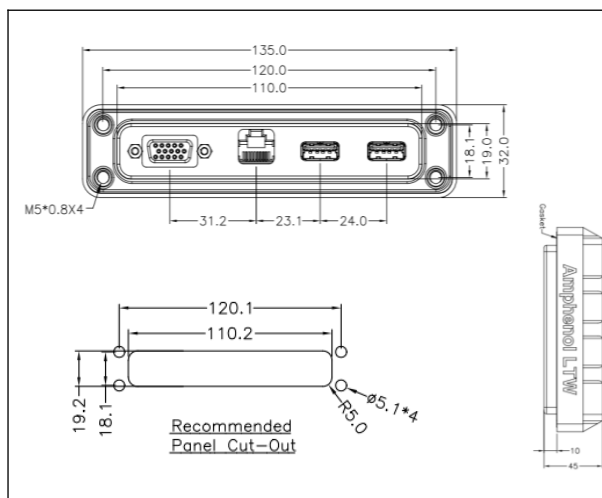
Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

Unrivaled InterConnects for Harsh Environments

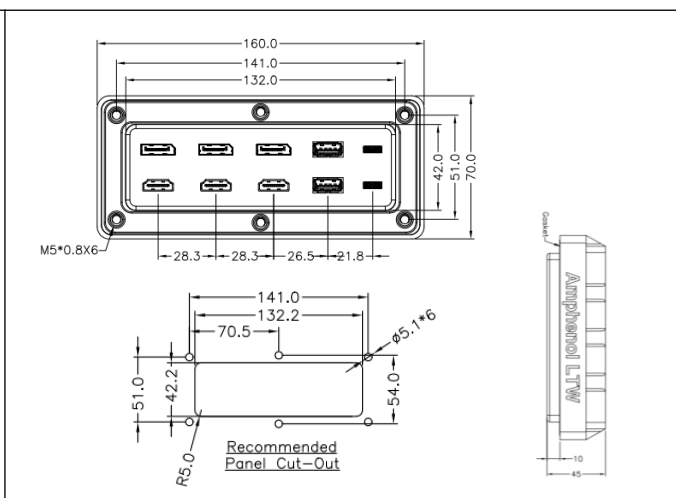
Modular I&O Solution

Specification

1U Modular Dimensions



2U Modular Dimensions



Connector Options



HDMI

- Push Lock with latch or screw thread
- Operating temperature $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Flammability UL 94V-0



D-Sub

- Up to 78 pins
- Connector interface meet ANSI / B93.55M-1981
- Fool-proof alignment key design



USB C

- IP67, IP68 mated or unmated
- meet Super Speed communication of 10Gb/s



DisplayPort

- Current Rating: 0.5A
- Operating temperature $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$



USB

- IP67, IP68 mated or unmated
- Screw thread, snap-in, 2 points lock
- Flammability UL 94V-0



RJ

- IP67 mated or unmated
- EMI shielding
- Support PoE
- Transmission speed up to Cat 6A

Product Advantages:

- ✓ Prevents siphon issues by using box sinking cooling for smooth operation
- ✓ Reliable sealing with the capability to pass a **high-pressure test**
- ✓ **4 to 6 M5 screws** for robust and stable installation
- ✓ Supports **direct outlet type** and **interface pair type** connections, offering versatile installation options
- ✓ Designed with high compatibility for various materials:
Outer shell: Metal / **Rubber:** NBR or HNBR
Thermoplastic: PA66 / **Cable jacket material:** XLPE or PU



Modular I&O Solution

FAQs

Modular products have which connectors to choose?



Commonly used RJ45, USB, HDMI, VGA, etc., customers can choose according to their needs

Mode of connection



Direct outlet type and interface pair type

Compatibility with coolant



The main material compatibility is excellent :

Outer shell: Metal

Rubber: NBR or HNBR

Thermoplastic: PA66

Cable jacket material: XLPE or PU



Sealing property



The product can pass the pressure test of 120Kpa/30s

Locking mode



Use 4 to 6 M5 screws

Temperature range



-40 ~ 80°C

How to avoid siphoning from internal cables



The single port and module design both have sealing mechanism to isolate liquid flow in between.

KNOW EXACTLY WHAT YOU'RE LOOKING FOR?

Great, let's get down to business.

Just call or e-mail us at sales@ltw-tech.com to get more product information.





Amphenol LTW

Contact Us

Luc Kan | Sales & Marketing | luc@ltw-tech.com

Customer Service | sales@ltw-tech.com

Follow Us



Unrivaled InterConnects for Harsh Environments