

Rugged Compact Mobile Computer for Extreme Environments

Designed for applications across a range of defense and civil sectors, the Zypad BR2000 is a high performance, reliable communications tool capable of operation in the most challenging conditions. With its multiple connectivity options, the Zypad BR2000 is usable as both a wearable and vehicle mounted device, while being Cloud-enabled proves suited for big data harvesting from field operations.



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Eurotech's Zypad BR2000 rugged computer is an innovative design for military, defense and first responder applications, usable as both a wearable and vehicle mounted device. Designed to withstand extreme temperatures, vibration, shock, and sealed against exposure to the elements, the BR2000 is a tough and powerful computing solution for size, weight and power (SwaP)- constrained vehicle and aircraft platforms.

Built to be physically robust, the BR2000 operates in extended temperature ranges, is impact-resistant and withstands dust, water and contaminants making it well-suited to extreme working environments. A long battery life gives the benefit of extended use in the field without replacement. While relatively new in the market, the Zypad BR2000 is already attracting interest from a variety of users, especially as it squeezes a very powerful processing unit into a small rugged enclosure.

POWER TO THE USER

The Zypad BR2000 continues Eurotech's progress in developing small, high performance products that are cloud-enabled and are equipped with wired and wireless communications interfaces and other important functions. Weighing less than 1.8 pounds including the battery, the device can be worn on a vest, utility belt, pocket or backpack and interface with a wrist-worn, vest-mounted, handheld and/or helmet monacle display.

The BR2000 is based on the latest generation Intel® Atom™ E660T processor (with CPU speeds up to 1.6GHz), which is essential for achieving high performance at low power in both wearable or in-vehicle applications.

The Zypad BR2000 delivers:

- A broad range of I/O interfaces including WiFi, Bluetooth and 50-channel GPS receiver with integrated antenna
- Wide-ranging OS support including Windows 7, WES 7 and Wind River Linux.
- Support for Eurotech Everyware™ Software Framework (ESF) and enabled for Everyware™ Device Cloud

- Ultra-low power performance (5W average consumption)

The power-efficient Intel® Atom™ E660T helps the BR2000 offer these advanced features and capabilities while achieving four to six hours of battery time in typical use cases.



Figure 1: Physically robust to endure even the most extreme conditions, the Zypad BR2000 is compliant with environmental standards.

ULTIMATE IN VERSATILITY

The Zypad BR2000 can be mounted onto a vehicle such as a truck or service vehicle, or worn on the vest, utility belt, or pocket offering portability and flexibility depending on the situation.

The BR2000's versatility is enhanced by its exceptional rugged qualities. Being only 138 x 107 x 36mm, it takes up very little space and can be hard wired into the vehicle power system or work on battery power so as to be easily transferrable to its wearable function when required.

One target application relates to light armoured vehicles, providing part of a tactical communications hub for cellular, WiFi and GPS data to the vehicle as well as delivering mapping data and location-based support to the vehicle-based tasks in construction, agriculture and mining.

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Eurotech designed the Zypad BR2000 with a range of rugged benefits. For instance, its operating temperatures extends from -40°C to +71°C and the device can function equally well at sea level and up to 20,000 ft altitude. The product is compliant with IP67 standard, military standards MIL-STD-416F and MIL-STD-810G, IEC 61000 EMC Part 4-2, EN55022 and a range of other standards relating to protection against dust ingress, vibration resistance, electromagnetic compatibility and radiated emissions. These specifications offer extensive scope for meeting the most demanding user requirements.

CONCLUSION

The innovative Zypad BR2000 is both powerful and versatile with a rugged design that ensures reliable operation even in the most extreme environments. Leveraging the low-power architecture of the Intel® Atom™ E660T processor together with high-speed wired and wireless network and device I/O interfaces, the Zypad BR2000 offers an innovative solution that can be mounted onto a vehicle such as a truck or service vehicle, or worn on a vest, utility belt, or pocket offering portability and flexibility depending on the situation.

For more information on Eurotech please visit our website www.eurotech.com or contact our sales team at sales.us@eurotech.com