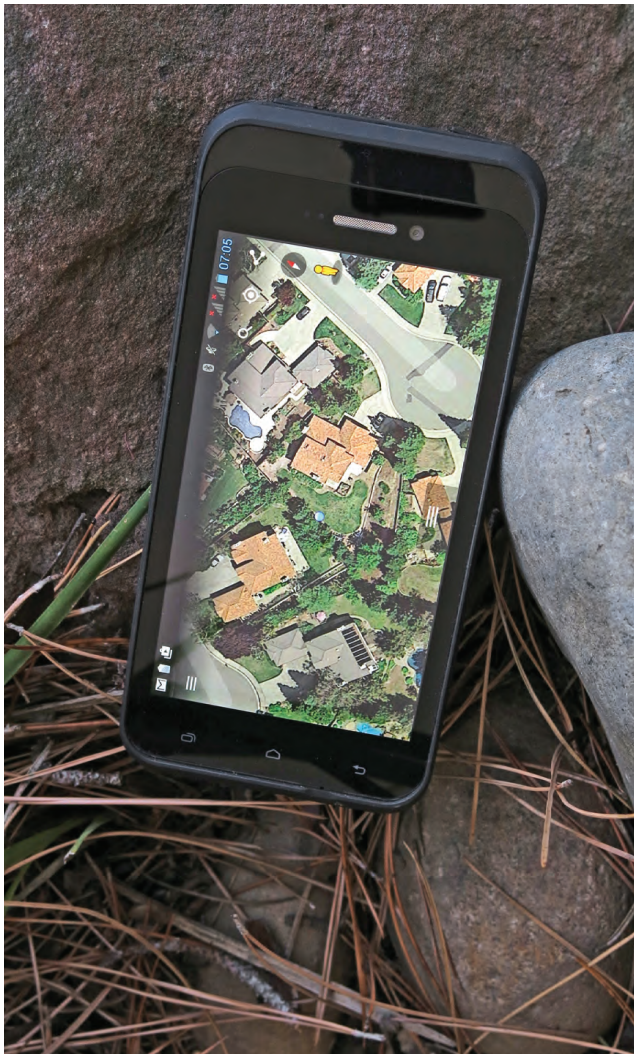
ARBOR


# Leverage Rugged Mobility to Optimize Your Business


ARBOR

# Table of Contents


# Exploring Market Opportunities

The rugged mobile market has experienced rapid change of late. The most dramatic change is the influence of the growth of consumer mobile tablets and smartphones. As a result, rugged mobile computing devices are inevitably influenced by consumer mobiles. The impact is not superficial but goes all the way to product design. For example, the smart phone influences mobile worker' expectations for functionality and ease of use. This in turn, leads to the improvement of rugged mobile devices, such as the adoption of touch-oriented screens instead of keypads, or the user-familiar Android platform. Technology evolution also plays an important role in driving change. Use of multi-core platforms to increase processing power, or the implementation of 4G/LTE and NFC technology are but two examples.

In spite of the competition from consumer-grade devices, the rugged tablet market still presents great opportunity as there remains a need for the unique characteristics of a rugged device, built to withstand a harsh environment with essential business features such as docking, carry options, integrated sensors that leverage emerging IoT trends and existing demands such as barcode scanning. And all of this taking advantage of maturing 4G broadband wireless technology that gives information to the user at the point of need.

As a long term participant in the rugged mobile computing segment, ARBOR continues to invest. We have developed strategies to be adaptive to this evolving market including extending our product diversity and manufacture capacity through partnerships, while continuing to grow our portfolio with differentiated products that will strengthen our position and grow our business in the market.our portfolio with more differentiated products with the aim to strengthen our position and grow our business in the market.

## Teaming up with MediaTek to Be Part of the IoT Ecosystem

There is no doubt that the Internet of Things (IoT) has been and will continue to be a critical driving force for mobile market. To strengthen ARBOR' s mobile eco-system and thereby seize substantial and growing mobile business opportunities, ARBOR announced a strategic alliance with MediaTek in 2014. As a leading fabless semiconductor company, MediaTek also engineers and manufactures Systems on Chip (SoC) for wireless communications and connectivity. Over the past decade MediaTek has captured a substantial percentage of the world' s mobile market by creating a worldwide ecosystem of device creation, application development and services based around the company' s offerings. ARBOR is part of MediaTek' s ecosystem but our unique partnership with MediaTek also speeds up ARBOR' s participation in worldwide IoT ecosystem.

With MediaTek' s proven innovation in multi-core CPU design, cost-effectiveness, flexibility and rapid time to market, ARBOR expands our offerings in the ever-growing Android market and provides our customers with high performance products at an affordable price. Under the basis of cooperation and strong partnership, ARBOR has introduced a range of Android-based mobile offerings powered by MediaTek chipsets – the Gladius series. The Gladius series is designed for a wide range of industries, such as medical, transportation, mPOS, fleet management, warehousing as well as O2O applications. It' s a demonstration of how this partnership brings benefits to our customers in terms of product features, price points and optimum time to market.

## Maintaining a Long-Term Partnership with Intel and Microsoft

ARBOR has been a long-time alliance partner with both Intel® and Microsoft®. ARBOR is an Associate Member of the Intel® IoT Solutions Alliance, one of the world's most recognized and trusted technology ecosystems dedicated to providing scalable and interoperable solutions. Partnering with Intel enables ARBOR to benefit from early access to roadmaps, test platforms, and design support and thus accelerates the deployment of computing devices, reduces risk and lowers development costs. ARBOR is a certified Windows Embedded Partner. Microsoft' s Windows Embedded Partner Program (WEP) is a strategic worldwide program focused on providing partners with increased business opportunity, market awareness and technology advantage.

Many of ARBOR' s mobile computing devices use Intel' s Atom/Celeron processor with a Window Embedded OS. The Intel SoCs are mainly designed for smartphones and tablets. They feature high performance for peak mobile experience while maintaining a high energy efficiency. The perfect balance of performance and power management makes it an excellent selection for challenging mobile applications. Windows embedded platforms deliver full Windows application compatibility to existing business processes and the flexibility to create customized alternatives. Intel and Microsoft offerings are great choices for business and enterprise professionals intent on extending business intelligence.

## Expanding Product Portfolio

ARBOR is constantly expanding the range of products offered to our customers in the industries and applications where new opportunities for growth exist. In response to growing demand in mobile markets, we launched several Android-based handheld devices. We anticipate a significant market opportunity as more businesses and enterprises adopt Android for core line-of-business applications. The rugged tablet market is relatively mature yet still shows growth potential. ARBOR has expanded its existing tablet product portfolio with many Android tablets that complement our existing Windows tablet products.

# Expanding Manufacturing Competence

Another approach to expand our business opportunity is further expanding ARBOR' s manufacturing capacity by creating a strategic manufacturing partnership with Wistron, one of the leading original design manufacturers (ODM) in the information communications technology space. ARBOR' s existing manufacturing sites in Taiwan and Shenzhen, China have manufacturing capability. But this partnership with Wistron enables ARBOR to take advantage of Wiston' s high-volume, cost-effective facility without the need for a significant capital investment. ARBOR also benefits from pricing, sourcing capacity and after sales services that Wistron offers.

By leveraging ARBOR' s strength in research & development, a diverse product portfolio, and Wistron' s advantages in manufacturing technology and capacity support, ARBOR can rapidly accelerate its time to market so as to better meet customer' s growing demand for ARBOR products.

## Assembly Service

Wistron offers a complete set of board-level and systems-level assembly services to ARBOR to maintain pace with the increasing needs of our customers. ARBOR will utilize Wistron manufacturing services for various products using different manufacturing modes. Wistron provides standard final system assembly as well as configure-to-order (CTO) and build-to-order (BTO) models. Wistron' s IT systems allow for CTO and BTO models to operate utilizing efficient cooperation between ARBOR product line schedulers, component suppliers and customers.

## Quality Control

In-process quality assurance processes at the manufacturing level ensure that Wistron is able to execute the production plan as scheduled while meeting the quality expectations of ARBOR customers. The testing process starts with close examination of in-coming components to ensure supplier quality and ends with OOBA final assembled and packaged sample testing.

## Supply Chain Management

ARBOR works closely with Wistron to develop the optimum component planning and final system delivery, as well as the on-going, future component supplies for supporting the after-sales service function. Through a highly integrated project management process flow, sophisticated IT systems and close management / knowledge of component suppliers, Wistron can ensure optimum utilization and efficiency of the supply chain. Thus, ARBOR is confident that product development through volume manufacturing and after-sales service is well-managed.

wistron


# Rugged and Ergonomic Design

Rugged is an important factor for mobile computing from two perspectives. First, ruggedness is needed to withstand the typical rigors of daily mobile use. Second, it is needed to meet the various environmental challenges under all exposed working conditions including the harshest environments. As environmental factors vary from application to application, there is wide variety of engineering factors that need to be addressed, such as rain, dust, shock and extreme temperatures. For example, a warehouse application needs a rugged mobile computer capable of withstanding drops and dust; while a mobile computer used for field data collection needs the ability to withstand rain or extreme temperature.

As an experienced designer and manufacturer of industrial and embedded systems, ARBOR has experience in ruggedizing products. ARBOR' s mobile computing product lines are developed tough enough to handle whatever might be encountered on the job.


## MIL-STD-810 Durability Rating

MIL-STD-810 is an accepted standard of ruggedness testing and compliance set by the USB Department of Defense for military and commercial equipment and applications. The tests cover a broad range of environmental variables including temperature, pressure, dust, humidity and vibration testing. ARBOR' s rugged computing devices are engineered to be compliant with MIL-STD-810G/F standards to achieve industrial-grade durability.


## IP54/65-certified All-weather Design

Ingress protection (IP) rating describes levels of sealing protection against solids and liquids. The rating is composed of two numbers; the first defines the level of protection against dust from 0 ~ 6 while the second defines the level of resistance to liquids from 0 ~8. Higher numbers indicate a higher tolerance to dust and water. ARBOR rugged mobile computers are either IP54 or IP65 rated to ensure operation in dusty, dirty or wet job site conditions.


## Ergonomic Design

As mobile devices are intended for use in the work progresses for long periods of time, ergonomic design is essential to avoid operator fatigue, injury and discomfort. Ergonomically designed products are also less likely to need repairs or replacements. A number of factors can impact the ergonomic performance of a mobile device, including form factor, weight, usability and display visibility in bright sunlight. While built to meet the requirements for durability and functionality, ARBOR' s mobile computing devices don' t compromise ergonomics thus ensuring user acceptance.


# Build to Survive

## Reinforced Chassis

ARBOR rugged mobile computers are encased in a protective chassis that absorb shock. Our tablets come in a textured polycarbonate case that' s built onto a rigid magnesium alloy shell. The magnesium alloy provides durability without significant weight, making it a perfect material choice for mobile computers. And along the sides of the touch screen there is a rubber protective rim molded onto the housing to keep the water out. Some models come with add-on corner bumpers while some have bumpers molded in the four edges of the case. Whatever the design, these corner bumpers help to protect the computer against shock, drop damage or hard falls.

The mobile device has a metal alloy shell that supports the inside chassis; this helps to prevent the chassis from flexing and improves the durability rating.

## Meeting Standards

To ensure the ruggedness and reliability, ARBOR rugged tables are tested by an accredited outside third party testing lab to certify that our products meet the MIL-STD 810G and IP rating standards. The MIL-STD-810G standard specifies a variety of tests, including drops from as high as 6 feet onto hard surfaces like concrete, exposure to high and low temperatures, and tests for resistance to altitude, humidity and vibration.

## Hardened Display

Many of ARBOR' s rugged mobile computers feature Corning' s Gorilla® Glass as the cover glass to better withstand damage. Strengthened specifically for mobile devices, this glass improves screen durability including scratch resistance without adding weight to the highly mobile tablets.

## Fanless Design

ARBOR' s rugged mobile computing devices are equipped with a fanless cooling system; there are no openings on the surface of the cabinet so that dust and water cannot get into the enclosure. Such design ensures protection against water and dust penetration.

## Sealed Ports and Doors

The I/O ports and openings of the computer are protected by tight-fitting sealed covers with soft plastic hinges. The covers keep dirt, water and dust out and also help eliminate corrosion.

## Shock-mounted Components

A tough exterior is not enough. Shock absorption is needed for internal components. The main circuit board and all electronics are encased in the magnesium alloy chassis and vital components are shock-mounted. For example, hard disc drives are shock mounted with foam or reinforcing material to protect against drops and vibration of daily use.

# Designed to Fit Your Needs

## Efficient Power Management

Power management is critical for mobile rugged computers to keep them running at all times. Efficient power utilization is as important as ensuring rugged computers get charged when needed. Some methods adopted by ARBOR to achieve efficient power management include:

- Power-saving components
- High-capacity main battery
- Hot swappable second battery
- Superior battery life for longer uptimes
- Ambient light sensor to auto-adjust LCD brightness to save battery power
- Wireless charge support

## Rugged High Mobility

With MIL-STD-810 and IP6X certifications, ARBOR' s rugged PCs are engineered to be tough enough under the most challenging conditions, yet they are also designed to be light in weight to be carried all day. Though ruggedness inevitably comes at the cost of extra size and weight, ARBOR' s mobile tablets are optimized to achieve the right balance of ruggedness and ergonomics.

## Expandable Functions

ARBOR has designed mobile-specific features into various models such as daylight-readable screens (up to 1,000 nit) for some models for outdoor use. In addition, our rugged mobile computing products are also offered with various expantion modules, allowing customers to easily add new functionality such as Bluetooth, barcode scanner, 3G/4G, GPS, MSR, NFC/RFID and smart card readers. ARBOR understands that business needs are very different in different sectors, so we also offer Configured-to-Order Service to best satisfy the needs of different mobile workforce.

## Seamless Connectivity

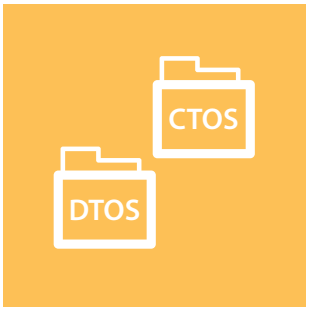
For mobile professionals using mobile communications, such as moving vehicles, industrial M2M, and geographically dispersed monitoring sites, seamless and full-time connectivity is a must to ensure that mobile workers can have real time data access and transfer from almost anywhere to stay in operation. Also, communications links must be reliable under dynamic and radio-hostile environments. To overcome this hurdle, ARBOR' s rugged PCs come equipped with multiple radio interfaces such as Wi-Fi, Bluetooth and 3G/4G to enable reliable mobile data access anytime, anywhere.

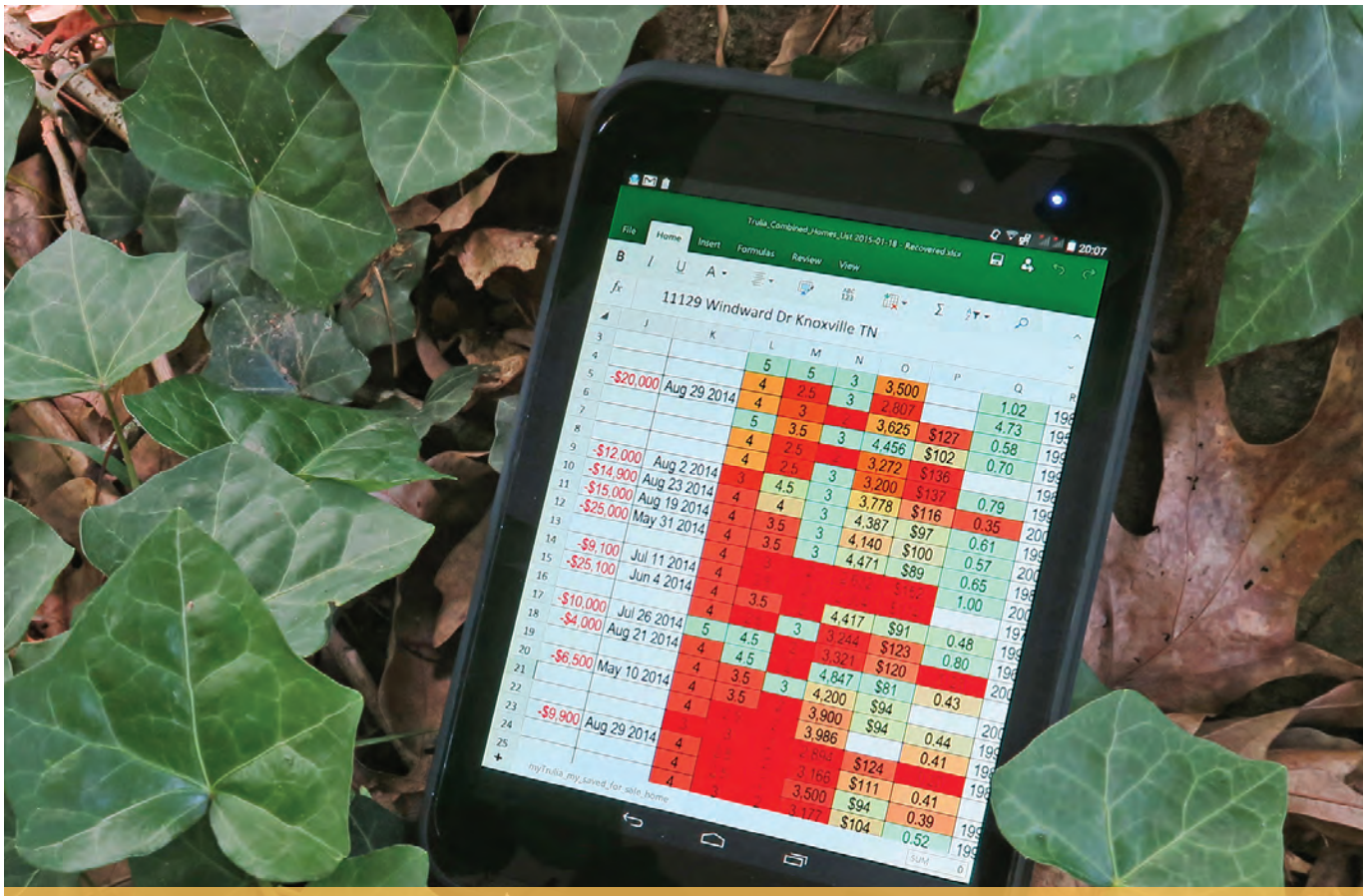
## Suite of Accessories

ARBOR offers a full suite of options and accessories to help customers customize the tablet PCs to fit their specific needs. From batteries that provide uninterrupted power to chargers, carry options such as hand straps and holsters, desktop docks to vehicle cradles, our accessories are built specifically to support our customer' s needs.

## Customization Service

Based on over 20 years of OED/ODM experiences in the IPC field, ARBOR is able to create customized mobile business solutions to meet customer' s diverse requirements. We can provide hardware design customization service such as customized components or peripheral integration. We also provide SDKs for major components like the barcode scanner, MSR, RFID/NFC modules, enabling customers to develop their own mobile applications in native code. By providing full-service OEM/ODM solution, ARBOR can satisfy any customer's requirements of cost, quality and on time delivery.






# Rugged vs Consumer Mobile Devices

With the wide adoption of consumer mobile devices, it seems that businesses are given the choice to shift to consumer-grade devices in favor of the lower initial expenditure. However, consumer-grade devices may not be the ultimate right answer, especially for mobile businesses where mobile workforces are typically in the field, enduring unpredictable working conditions and performing essential business processes.

That means mobile devices are exposed to a higher risk of being damaged due to drops, dirt, extreme temperature and vibration. Such failures of mobile devices not only lead to the cost of repair, but also the productivity losses and decreased customer satisfaction caused by the downtime.

Consumer-grade portable devices are just designed for consumer; they are not built with the rugged world in mind. In the beginning, ruggedness is often a factor neglected because of its higher purchase price. But in the long term, given that the mobility purchase is usually a 3-to-5 year investment, rugged mobile devices have a lower Total Cost of Ownership (TCO). Evaluating TCO differences is essential for businesses to select the right system that will provide the best value.

Venture Data Corporation (VDC), a leading research authority specializing in mobile computing solutions, has conducted an analysis on mobile computing TCO. The research aims to compare the TOC of non-rugged and rugged mobile devices. The findings were initially published in 2003/2004 and updated in 2013. Both releases concluded that the TCO of rugged mobile computers is in many ways lower when compared to non-rugged mobile computers in similar applications using the same mobile form factor.

# Average Annual TCO

According to VDC's research on average annual TCO as Figure 1 shows, there is a significant TCO saving with rugged devices across all the four mobile categories. In the tablet category the difference is as high as about 40%. That means rugged devices cost less to own, while consumer devices cost more when used in harsh business verticals.

The research also breaks down the TCO into cost incurred of upfront deployment, productivity loss and IT support, as shown in Figure 2. The finding shows that loss in productivity is the largest contributor to TCO. The soft cost, the productivity loss together with the IT support cost, account for almost 90% of the TCO of non-rugged devices. Though the initial acquisition costs are lower with a non-rugged device, especially the smartphones, they cost much more to own in the end.

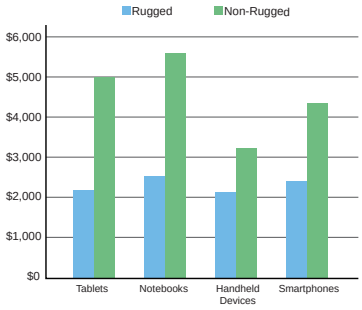



**Figure 1:** Average Annual TCO by Form Factor
Source: VDC Research 2013

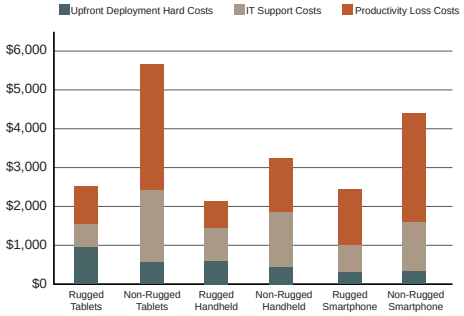



**Figure 2:** Average Mobile TCO by Form Factor
Source: VDC Research 2012

# Failure Rate

VDC's study also indicates that failure rates for non-rugged devices is higher than for rugged devices, as Figure 3 shows. Failure rate increases with time, but failure rate of non-rugged devices increases dramatically over the same period of time. As for rugged devices, the failure rate is fairly consistent over the 5 years. By year 2 the failure rate of non-rugged devices has risen to 38.5% (Figure 4), almost doubles from the first year. By year 3, almost 80% of non-rugged devices need a repair while only 18.2% of rugged devices need a repair.

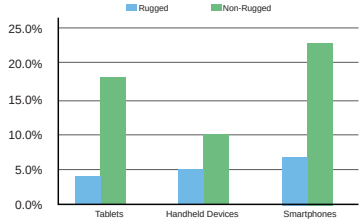



**Figure 3:** Average Annual Failure Rates by Form Factor
Source: VDC Research 2013

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
|---|---|---|---|---|---|
| Non-Rugged | 18.0% | 38.5% | 82.6% | 96.8% | 98.5% |
| Rugged | 3.3% | 7.8% | 18.2% | 55.4% | 76.2% |

**Figure 4:** Percent of Installed Mobile Computers Replaced by Year
Source: VDC Research 2013

The high failure rate accounts for the high cost of productivity loss and the IT support for non-rugged devices. As consumer devices are vulnerable when deployed in business operating conditions, high repair rates and cost is enviable. When downtime and repairs are figured into the lifetime costs of non-rugged devices, the ultimate price increases substantially.

# Life Cycle

Compare to the 3-5 year lifecycle of rugged devices, consumer mobile devices' lifecycle is short, typically 1-2 years. They are designed to appeal to consumers' rapid appetite for new models, new looks, and first-to-market features. Since it to be replaced almost annually, there is no need for manufacturers to address the durability issue. On the other hand, reliability is important for rugged devices to ensure they can survive the extreme operation conditions for 3-5 years.

# Vertical Markets


# Logistics and Distribution

## Managing Your Delivery Operation Efficiently

Logistics management plays an essential role to an enterprise' s productivity. To accelerate the find-and-move operations in today' s logistics applications, ARBOR has offered a comprehensive range of mobile rugged devices featuring versatile data collection methods, including RFID reader, barcode scanner and megapixel camera. As important as the data retrieval is the real-time communication. By using Wi-Fi or 3G/4G network, customers are able to streamline processes such as job assignments, reports logging and inventory updates. For front line service teams that work in all weather, our products are able to withstand the tough outdoor conditions.

## Featured Products


Gladius 5


Gladius 8


Gladius G0975


Gladius G1052C


Gladius G1056


Gladius G1220

# Warehouse Management

## Increasing Workforce Productivity

ARBOR' s rugged mobile computing devices can help streamline warehouse operations. By implementing our devices equipped with barcode scanners or RFID readers, data collecting can be more accurate and move faster. As a result, receiving, shipping, picking and packing processes can be accelerated, thereby increasing productivity. Our drop-resistant products can be mounted on forklifts/trucks or be taken in hand without worrying about drops and shocks associated with busy day-to-day activities. Also, wireless communication capabilities ensure real-time access to remote control centers to facilitate inventory information retrieving and constant updating. A rugged mobile device is simply the right productivity tool for the warehouse operations.

## Featured Products

Gladius GT-500


Gladius 8

Gladius G0975

Gladius G1052C

Gladius G1056

Gladius G1220

# Hospitality

## Enhancing Hospitality Efficiency and Guest Experience

In the busy hospitality and catering environments where numerous orders have to be taken and processed, the efficiency of service is as important as the reliability. ARBOR' s rugged mobile PCs are designed to streamline the operation from taking orders, communicating with the kitchen, serving the food and receiving payments. With the mobile computing capabilities and use of MSR and RFID/NFC reader, businesses can service customers and take the transactions directly, no matter where they are located. Our products can also work as self-service kiosks for ordering. Our IP54 and IP65 ratings keep the ARBOR mobile products safe from spill that regularly occur in a hospitality environment. As a result, waiting time and response time per guest is reduced and guest satisfaction will be enhanced.

## Featured Products


Gladius 5


Gladius 8


Gladius G0830

Gladius G0975T

Gladius G1052C

# Retail

## Meeting Customers' Needs Anytime, Anywhere

In spite of the boosting popularity of online shopping, brick-and-mortar stores are still the dominate format of shopping and accounts for the majority of global retail sales. But earning a sale inside the store has never been more challenging – shoppers are more informed today with higher expectations on service efficiency and effectiveness. Designed for extensive use, ARBOR' s rugged mobile devices can be applied for applications like mPOS, inventory management, shelf stocking and price lookups. With features like high portability, wireless communication capability, and modules like barcode scanner, MSR and RFID/NFC, our devices can help retailers take a more proactive and adaptive approach to enhance customers experience and operation efficiencies.

## Featured Products


Gladius 5


Gladius 8


Gladius G0830

Gladius G0975T

Gladius G1052C

# Medical

## Better Patient Experience Through Better Communication

Effective communication between healthcare providers and patients is crucial to preventing medical errors and incidents helping to ensure patient safety. To achieve accurate and instant information and data transfer, mobile computing devices can offer great assistance. Wireless-capable mobile devices offer seamless real-time access to patient or hospital information system. Barcode scanner or RFID reader allows faster and more accurate data collection like patient identification, medical record and specimen collection. The mobile devices facilitate the migration from paper to real-time processes and enable hospital organizations to optimize workflows and deliver a faster and higher quality medical service. The result is reduced costs, higher efficiency and better patient experience.

## Featured Products


Gladius 5


Gladius 8

Gladius G0975

Gladius G1052C

# Products Selection Guide




| Model | Gladius GT-500 | Gladius 5 | Gladius 8 | Gladius 10 |
|---|---|---|---|---|
| Dimensions (WxHxD) | 85 x 165.8 x 25.6mm | 84.0 x 175.6 x 15.9 mm | 145.0 x 218.0 x 19.8 mm | 278.4 x 190.7 x 22.9 mm |
| CPU | MTK M6735 Cortex-A53 Quad Core 1.3GHz | MTK MT6589 Quad-Core Cortex™A7 1GHz | MTK MT8382 Quad-Core Cortex™A7 1.3GHz | MTK MT8392 Octa-Core Cortex™A7 1.7GHz CPU |
| Graphics | - | - | - | - |
| Memory | 2GB | 1GB | 1GB | 2GB |
| Storage | 16GB | 8GB | 8GB | 16GB |
| Camera | 1 x 2.0 MP (Front)<br>1 x 13.0 MP, AF (Rear) | 1 x 2.0 MP (Front)<br>1 x 12.0 MP, AF (Rear) | 1 x 2.0 MP (Front)<br>1 x 12.0 MP, AF (Rear) | 1 x 5.0 MP (Front)<br>1 x 13.0 MP, AF (Rear) |
| WLAN | 802.11 a/b/g/n | 802.11 b/g/n | 802.11 b/g/n | 802.11 b/g/n |
| Bluetooth | Bluetooth 4.1 | Bluetooth 4.0 + EDR | Bluetooth 4.0 LE + EDR | Bluetooth 4.0 LE + EDR |
| WWAN | FDD-LTE / TD-LTE / WCDMA / TD-SCDMA / CDMA (1x+EVDO) / GSM / GPRS | WCDMA UMTS 850/1900/2100 | WCDMA UMTS 850/1900/2100 | 3G HSPA+(21/5.76 Mbps), GPRS, EDGE |
| GPS | Yes | Yes | Yes | Yes |
| LAN | - | - | - | - |
| Audio | FM, 1 x Mic, 1 x Speaker, 1 x 3.5mm headphone jack | 1 x Mic, 1 x Speaker, 1 x 3.5mm headphone jack | 1 x Mic, 1 x Speaker, 1 x 3.5mm headphone jack | 1 x Mic, 1 x Speaker, 1 x 3.5mm headphone jack |
| SD card slot | 1 x microSD card slot | 1 x microSD/SDHC | 1 x microSD/SDHC | 1 x microSD/SDHC |
| Serial Port | - | - | - | - |
| Video Output | - | - | 1 x Mini HDMI 1.4 | 1 x Mini HDMI 1.4 |
| USB Port | 1 x Micro USB 2.0 | 1 x Micro USB 2.0 | 1 x Micro USB 2.0 | 1 x Micro USB 2.0 |
| Display Size/Type | 5" | 5.5" | 7.85" | 10.1" |
| Max Resolution | 1280 x 720 | 1280 x 720 | 1024 x 768 | 1280 x 800 |
| Touch Screen Type | Projected Capacitive 5-Point Multi-Touch | Projected Capacitive 5-Point Multi-Touch | Projected Capacitive 5-Point Multi-Touch | Projected Capacitive 5-Point Multi-Touch |
| Power Adapter Input | 100~240VAC | 100~240VAC | 100~240VAC | 100~240VAC |
| Power Adapter Output | DC 5V, 2A | DC 5V, 1.5A | DC 5V, 2A | DC 5V, 2A |
| Battery | 1 x 4800mAh | 1 x 4040mAh | 1 x 6200mAh | 1 x 9300mAh |
| **Optional** | | | | |
| Smart Card Reader | - | - | - | - |
| Barcode scanner | Y | Y | Y | Y |
| RFID & NFC | Y (NFC) | Y | Y | Y |
| Stylus | - | - | - | - |
| Docking | Y | Y | Y | Y |



| Model | Gladius G0830 | Gladius G0975 | Gladius G0975T | Gladius G0975M |
|---|---|---|---|---|
| Dimensions (WxHxD) | 218 x 145 x15 mm | 258 x 198 x 22.5 mm | 258 x 198 x 22.5 mm | 258 x 198 x 22.5 mm |
| CPU | Intel® Atom™ x5-Z8350 Processor | Intel® Celeron® Processor N2930 Quad-Core 1.83 GHz | Intel® Celeron® Processor N2930 Quad-Core 1.83 GHz | Intel® Celeron® Processor N2930 Quad-Core 1.83 GHz |
| Graphics | Intel® HD Graphics | Intel® HD Graphics | Intel® HD Graphics | Intel® HD Graphics |
| Memory | 2GB DDR3L Soldered on Board | 2GB DDR3L SO-DIMM | 2GB DDR3L SO-DIMM | 2GB DDR3L SO-DIMM |
| Storage | 64GB eMMC | 1 x 32GB MLC mSATA SSD | 1 x 32GB MLC mSATA SSD | 1 x 32GB MLC mSATA SSD |
| Camera | 1 x 2.0 MP (Front)<br>1 x 8.0 MP, AF (Rear) | 1 x 5.0 MP | 1 x 5.0 MP | 1 x 5.0 MP |
| WLAN | 802.11 a/b/g/n/ac | 802.11 a/b/g/n | 802.11 a/b/g/n | 802.11 a/b/g/n |
| Bluetooth | Bluetooth 4.1 | Bluetooth 4.0 LE | Bluetooth 4.0 LE | Bluetooth 4.0 LE |
| WWAN | LTE* | - | - | - |
| LAN | 1 x RJ-45 (cradle) | 1 x RJ-45 (cradle) | 1 x RJ-45 (cradle) | 1 x RJ-45 (cradle) |
| Audio | 1 x Mic, 2 x Speakers,<br>1 x 3.5mm headphone jack | 1 x Mic, 2 x Speakers,<br>1 x 3.5mm headphone jack | 1 x Mic, 2 x Speakers,<br>1 x 3.5mm headphone jack | 1 x Mic, 2 x Speakers,<br>1 x 3.5mm headphone jack |
| SD Card Slot | 1 x microSD | 1 x microSD/SDHC/SDXC | 1 x microSD/SDHC/SDXC | 1 x microSD/SDHC/SDXC |
| Serial Port | - | 2 x RS-232 (cradle) | 2 x RS-232 (cradle) | 2 x RS-232 (cradle) |
| Video Output | 1 x HDMI 1.4 (cradle) | 1 x Mini HDMI 1.4<br>1 x VGA (cradle) | 1 x Mini HDMI 1.4<br>1 x VGA (cradle) | 1 x Mini HDMI 1.4<br>1 x VGA (cradle) |
| USB Port | 1 x Micro USB 2.0 (OTG)<br>3 x USB 2.0 (cradle) | 1 x USB 3.0, 1 x micro USB 2.0<br>4 x USB 2.0 (cradle) | 1 x USB 3.0, 1 x micro USB 2.0<br>4 x USB 2.0 (cradle) | 1 x USB 3.0, 1 x micro USB 2.0<br>4 x USB 2.0 (cradle) |
| Display Size/Type | 7.85″ | 9.7″ | 9.7″ | 9.7″ |
| Max Resolution | 1024 x 768 | 1024 x 768 | 1024 x 768 | 1024 x 768 |
| Touch Screen Type | Projected Capacitive<br>10-Point Multi-Touch | Projected Capacitive<br>10-Point Multi-Touch | Projected Capacitive<br>10-Point Multi-Touch | Projected Capacitive<br>10-Point Multi-Touch |
| Adapter Input | 100~240VAC | 100 ~ 240VAC | 100 ~ 240VAC | 100 ~ 240VAC |
| Adapter Output | DC 12V, 5A, 60W | DC 19V, 3.42A, 65W | DC 19V, 3.42A, 65W | DC 19V, 3.42A, 65W |
| Battery | 1 x 4000mAh | 1 x 2270mAh<br>1 x 2270mAh* | 1 x 2270mAh<br>1 x 2270mAh* | 1 x 2270mAh<br>1 x 2270mAh* |
| Optional | | | | |
| Smart Card Reader | Y | - | - | - |
| Barcode scanner | Y | Y | Y | Y |
| RFID & NFC | Y (NFC) | - | Y | - |
| Stylus | - | - | - | - |
| Docking | Y | Y | Y | Y |
| MSR | Y (cradle) | - | - | Y |

*Optional

| Model | Gladius G1052C | Gladius G1056 | Gladius G1220 |
|---|---|---|---|
| Dimensions (WxHxD) | 294 x 205 x 25 mm | 266.8 x 257.7 x 67.7 mm | 320 x 246 x 29.5 mm |
| CPU | Intel® Celeron® Processor N2930 Quad-Core 1.83 GHz | AMD G-Series APU Dual-Core G-T56N 1.65GHz | Intel® Atom™ Processor Dual-Core N2600 1.6GHz |
| Chipsets / Graphics | N/A/ Intel® HD Graphics | AMD A50M/ Radeon HD 6320 | Intel® NM10/ Intel® GMA3600 |
| Memory | 2GB DDR3L SO-DIMM | 4GB DDR3 SO-DIMM | 2GB DDR3 SO-DIMM |
| Storage | 1 x 32GB MLC mSATA SSD | 1 x 32GB 1.8" SATA SSD | 1 x 32GB MLC SSD |
| Camera | 1 x 5.0 MP | 1 x 5.0 MP, AF (Rear)<br>1 x 5.0 MP, AF (Front)* | 1 x 5.0 MP, AF (Rear)* |
| WLAN | 802.11 a/b/g/n | 802.11 a/b/g/n | 802.11 a/b/g/n |
| Bluetooth | Bluetooth 4.0 LE | Bluetooth 2.1 + EDR | Bluetooth 4.0 LE |
| WWAN | HSUPA/HSPA+/LTE* | HSUPA/HSPA+/LTE* | - |
| GPS | Yes | - | - |
| LAN | 1 x RJ-45 (cradle) | 1 x GbE | 1 x GbE |
| Audio | 1 x Mic, 1 x Speaker,<br>1 x 3.5mm headphone jack | 1 x Mic, 2 x Speakers,<br>1 x 3.5mm headphone jack | 1 x Mic, 2 x Speakers,<br>1 x earphone jack, 1 x MIC jack |
| SD Card Slot | 1 x SD/SDHC/SDXC | - | 1 x SD/SDHC |
| Serial Port | 1 x RS-232* | 1 x RS-232* | 2 x RS-232 |
| Video Output | - | 1 x VGA, 1 x Mini Displayport | - |
| USB Port | 1 x USB 3.0<br>3 x USB 2.0 (cradle) | 4 x USB 2.0 | 4 x USB 2.0 |
| Display Size/Type | 10.4" | 10.4" | 12.1" |
| Max Resolution | 1024 x 768 | 1024 x 768 | 1024 x 768 |
| Touch Screen Type | Projected Capacitive<br>10-Point Multi-Touch | Analog Resistive touch | Analog Resistive touch |
| Adapter Input | 100 ~ 240VAC | 100 ~ 240VAC | 100 ~ 240VAC |
| Adapter Output | DC 19V, 3.42A, 65W | DC 19V, 4.74A, 90W | DC 19V, 4.74A, 90W |
| Battery | 1 x 2500mAh<br>1 x 1880mAh* | 2 x 2500mAh | 2 x 1880mAh |
| Optional | | | |
| Smart Card Reader | Y | - | - |
| Barcode scanner | Y | - | - |
| RFID & NFC | Y | Y | - |
| Stylus | Y | Y | Y |
| Docking | Y | Y | Y |
| MSR | Y | - | |

*Optional

# Accessories

Gladius GT-500

Desktop Cradle

4-in-1 Battery Charger

Hand Strap

Pistol Grip


Gladius 5

Desktop Cradle w/ Wireless Charger

4-in-1 Battery Charger

Thermal Printer

3-in-1 Holster

Waist Holster


Gladius 8

Desktop Cradle w/ Wireless Charger

Thermal Printer

3-in-1 Holster


Gladius 10

Thermal Printer

Desktop Cradle


Gladius G0830

Desktop Cradle

Docking

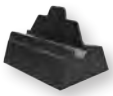
Hand Strap

Pistol Grip

Thermal Printer

# Accessories

Gladius G0975



Desktop Cradle

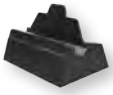
Vehicle Cradle

mPOS Cradle

Neck Strap

---

Gladius G0975T



Desktop Cradle

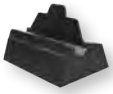
Vehicle Cradle

mPOS Cradle

Neck Strap

---

Gladius G0975M



Desktop Cradle

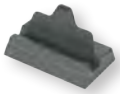
Vehicle Cradle

mPOS Cradle

Neck Strap

---

Gladius G1052C



Desktop Cradle

Battery Charger

Hand Strap

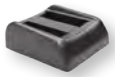
Neck Strap

Capacitive Touch Pen

Mount Bracket

---

Gladius G1056



Battery Charger

Wall-Mount Cradle

Digitizer Stylus

Shoulder Strap

---

Gladius G1220

Desktop Cradle

Desktop Stand

Shoulder Strap

pCap Stylus

One-handed Holder

---

# Leverage Rugged Mobility to Optimize Your Business


ARBOR

www.arbor-technology.com