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Rugged PC and handheld reviews, specs, and definitions

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Cincoze GM-1000's new Quadro MXM GPU modules satisfy stringent machine vision performance requirements

Cincoze, a manufacturer of embedded systems, expands the Cincoze GM-1000's machine vision application performance with two new Quadro MXM GPU modules. Building on the GM-1000's powerful processing base, the MXM-RTX3000 and MXM-T1000 provide the additional GPU capacity for rapid adoption of machine vision in smart factories, from simple environmental perception applications such as positioning, measurement, identification, and sorting, to more complex vision-guided automation functions. [See Cincoze media release] - Posted Monday, February 1, 2021

What happened in rugged computing 10 years ago: February 2011

In February 2011, we compiled our first media tablet table. Fujitsu released their 10.1-inch Stylistic Q550 Windows tablet, DLI their DLI 8200 Vehicle-Mount Computer, Motion the low-end cSV MCA with a Core i3 chip, MobileDemand the xTablet C1200 convertible, Trimble the GeoExplorer 6000 handhelds, and HP the webOS-powered TouchPad LXE, which introduced the LXE Tekton handheld, became part of EMS Global Resource Management. We reviewed the Advantech ARK-3390, ARK-3403, ARK-3440, ARK-6320 and AIMB-780, and Getac's updated V100 convertible. Interneer announced 2010 revenues of US\$679 million, and Microsoft announced Windows Embedded for thin clients while Windows XP Embedded mainstream support was terminated. [See full January 2011 archive] - Posted Monday, February 1, 2021

Panasonic TOUGHBOOK helps drive success at Raskone

Raskone, Finland's largest commercial vehicle repair business, has saved time and improved inventory management with the roll-out of Panasonic rugged handheld devices and a custom-designed TOUGHBOOK Omnia application. The company is using the Panasonic TOUGHBOOK T1 rugged Android handheld warehouse solution including pistol grip, charging dock and custom-designed application to deliver a future-proofed sales involving and inventory management solution that reduces errors and improves efficiency. [See Panasonic media release] - Posted Sunday, January 31, 2021

RuggON SOL PA501 now upgraded to Android 10

RuggON Corporation, a leading rugged computing solutions provider, has taken lead in upgrading its flagship Android GMS-certified rugged tablet SOL PA501 Android 10 to better serve users and enterprises with forward-looking OS feat, promise more advanced enterprise-grade security and management, and rugged standards at best. [See RuggON media release] - Posted Friday, January 29, 2021

Global smartphone market grows 4.7% in Q4 2020 but COV causes 6.7% YoY decline

According to market research company Omdia, the global smartphone market

Comparison Tools >>>

Rugged handhelds
Rugged notebooks
Rugged Android devices

RuggedPCReview Blog

Rugged Issues

Whatever's rugged and tough, we discuss it here, the good, the great, and the ugly. We're not pulling any punches. Also look for news and opinions. Most recent blogs:

- Microsoft's 1996 Windows CE launch
- Consumer vs rugged tech
- How a German/Chinese company views the situation
- About computer benchmark testing
- MIL-STD-810H: drop test changes
- Rugged gear camera issues
- Android Controversies: 2019
- The drone in your future
- How bright is your screen?
- Ditching laptops for tablets
- Why ruggedness testing matters
- Make IP67 the minimum standard
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Recent reviews/additions

Getac S410
Datalogic Memor K
Datalogic Skorpion S
Winmate USB Type-C display

- Daily industry news
- Information and reviews on
 - Rugged handhelds
 - Rugged tablets
 - Rugged laptops
 - Rugged panel computers
 - Fixed/vehicle mounted PCs
- Definitions and specs
- Ruggedness testing
- Industry leader info
- Ranked #1 in Google and Bing search for "rugged PC"

Rugged slates and pen computers

Perfect for when you don't need a keyboard
By Conrad H. Bickensortler

Slates or tablets are computers without a physical keyboard. The entire computer is built into a slate-like enclosure that is as thin and handy as possible. Since they don't have a physical keyboard, slates use touch and other also gestures or active pens for input. In early pen computers, the pen was used both to replace the mouse or joystick for navigation, and sometimes also to actually enter text.

Tablet computers may use a passive digitizer that can be coordinated with a stylus or even a finger. Active digitizers (which was required by Microsoft's Windows XP Tablet PC Edition) use an electromagnetic digitizer with a special pen. Some pen slates can automatically switch between passive and active digitizers. All pen slates have on-screen keyboards or you can, of course, connect a standard keyboard. And since the advent of the Apple iPhone and iPad, more and more rugged tablets use capacitive touch either by itself, or in conjunction with a stylus or pen.

Tablets are perfect for many field applications where low weight and maximum portability are crucial. Some ruggedized tablets weigh barely more than two pounds. Others are heavily sealed and ruggedized and can be used in almost any environment.

A variant of the "open" tablet computer is the notebook "convertible." Convertibles are standard notebooks with displays that twist and then lay down flat on top of the keyboard/system unit, converting the notebook into a slate computer, albeit a relatively heavy one.

Today, with hundreds of millions of ad tablets and, in some necessary circumstances, in more durable and more durable

clément and their entire computers are certainly

handling recognition of future, and the ruggedness the opposition created

Rugged Handhelds and PDAs

Ruggedized vertical market handheld computers and rugged PDAs are the unsung heroes of the mobile computing revolution. They are tough tools for the job, and their impact on productivity and the financial bottom line can be tremendous. (By Conrad H. Bickensortler)

Not too long ago it was unthinkable to expect computing power away from the desk, and then a time when it was unthinkable to have it where you need it most: out in the field and on the job. As a result, field force workers had to make do with pen and paper that often resulted in errors, delays, and an inability to access and forward data when it was needed most.

About two decades ago, some companies began using pen computers for such field work, and some of those applications were quite successful. But full-fledged pen computers cost a lot, and thus computer penetration in field force applications remained low. That is now changing with the emergence of tablet computers and relatively low cost handhelds that benefit from the great advances in consumer market smartphone technology.

Most of the devices you see in this section use the same electronic components you find in a conventional PDA, PC or PDA, but they are packaged in tough, rugged shells and

Rugged Handheld Reviews

TABLET COMPARISON TABLE

- 2T HANDGEAR
- 2T Hydrus (full)
- 2T Hydrus Luna
- 2T JETT™
- 2T JETT™
- 2T N4
- 2T Safari
- 4P FDA300
- 4P FDA600
- Access ME21000
- Access ME21050
- Access PD32
- Advantech MARS-10301031
- Advantech FWS-0323M
- ADLINK IMX-2000
- ADLINK IMX-9000
- Amrei APEX AH13
- Amrei DAS
- Amrei DAS-5
- Amrei DSE
- Amrei DPTA
- Amrei XFF-AD
- Amrei Gladius 5
- Amrei Gladius 8
- Amrei Gladius GT500
- Amrei G90

One click access to 100s of full reviews, specs, explanation of technologies and standards

RuggedPCReview.com provides pertinent industry information compiled by experts in the field of rugged computing technology. Get the facts and details on many hundreds of rugged, industrial computers and handhelds, and the peripherals and enabling technologies they use. Full reviews of all major products, and overviews/specs of everything else. RuggedPCReview.com also explains rugged computing terminology and standards, and highlights the major players in the industry. As a result all site visitors are potential customers. And our stellar Google visibility means customers always quickly find your products.

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Reach potential resellers and distributors
Get the most detailed product reviews
Get your company/product name out there

1 Full reviews of every major product

2 Capsule reviews and specifications of all products

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See: Teguar T5546 | TD-452 | TM-4422-10 | TM-5057-23 | TRT-3465-16 | TRT-6102-21 | TRT-6330-103 | TR-5010 | TSC-5010-15 | Home | Teguar web

Rugged notebooks

February 1, 2021 04:37:37 PM EST

DT Research LT330

Pioneering tablet computer experts launch a timely trio of fully-rugged high-performance 360-degree convertible laptops with antimicrobial enclosures

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It may look like it's all smartphones and tablets these days, and those have certainly revolutionized life as we know it in more ways than we ever thought possible. But laptops are far from done just yet, and they may never be replaced. Having a full, solid, reliable mechanical keyboard remains at the very center of productivity in many places, and that includes not just the desktop but also vehicles and many other venues.

So San Jose, California, based DT Research, known as a noted purveyor and manufacturer of high quality information appliances including rugged mobile computing devices and medical computing solutions for vertical markets, has now introduced the company's first-ever line of rugged convertible laptop computers. And with anti-microbial enclosures no less. In this article we're presenting one of the company's three new LT300 Series machines, together with our assessment of where it fits in and what it can do.



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Panels and vehicle mounts

February 1, 2021 04:38:11 PM EST

Teguar TSC-5010-15

Impressive stainless steel waterproof industrial touchscreen panel PC with IP69K sealed cable gland conduit

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In this article we'll describe Teguar's waterproof panel computers in general, and examine a special version, the TSC-5010-15. The latter addresses high-pressure and high-temperature cleaning requirements by using a sealed cable gland conduit design for wired connectivity instead of the more common waterproof screw-on connectors.

Teguar specifically designed their waterproof industrial panel PCs for harsh environments where daily washdown and equipment cleanings are needed. Target deployments are human-machine interface applications in areas such as food services, chemical factories, medical and pharmaceutical, process control and various custom HMI applications. To match different requirements, the panels come in different sizes with different mounting options, different levels of waterproofing, different housing materials, and a wide variety of optional configurations and functionality.

While from the front Teguar's waterproof panel computers and monitors have the sleek appearance of modern tablet computers, they are full-fledged, heavy industrial workhorses built to provide years of reliable 24/7 operation without ever breaking a sweat. And while they are tools for the job, they offer plenty of performance from their powerful Intel Core processors.



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Rugged computing industry leaders

February 1, 2021 04:37:37 PM EST

Dell Rugged News

Dell Latitude Rugged reports for hazard duty - Introducing the Latitude 7220EX Rugged Extreme Tablet

No different to other industries, the Agriculture, Chemical,

Dell Rugged Computing For Extreme Conditions

Computing solutions deployed in harsh environments require the highest degree of durability. Because these devices run mission-critical applications, failure can lead to costly downtime or jeopardize an important mission.

With Dell Rugged computing solutions, you can get military-grade durability and reliability with the business-level support and manageability that you've come to expect from Dell. No matter where your job takes you, Dell Rugged computing solutions can handle your demanding work environment with:

- Protection from the hazards of your workplace
- Bright, sunlight-readable displays with optional relative touch
- Wireless and mobile broadband options for connectivity anywhere
- Optional in-vehicle docking and ecosystem solutions
- A business level of manageability, security and support

Dell's 2019 rugged notebooks



Manufacturing and Oil & Gas sectors are undergoing a digital transformation. There's a demand to train more skilled workers in these fields, along with a growing desire — and often regulatory need — to continuously modernize equipment so that engineers and field workers can operate safely and efficiently. Reliable, durable Dell Rugged devices are one of the U.S. Bureau of Labor Statistics, workers in the Oil & Gas extraction industry continue to be one of the groups at the highest risk of injuries and fatalities on the job. Recognizing the importance of rugged devices in this equation, we are giving engineers around the world a new tool in their arsenal: the Latitude 7220EX Rugged Extreme Tablet with ATEX and IECEx certification for use in potentially explosive environments. (See Dell media release) - Posted Thursday, December 19, 2019 09:48 AM

New Dell Latitude 7220 Rugged Extreme: the most powerful 12" fully rugged tablet on the market

Dell today announced the Latitude 7220 Rugged Extreme tablet, built to meet the demands of workers in harsh environments: from the factory floor to ambulances, desert sandstorms to Arctic conditions. The lightest and most powerful rugged 12" tablet on the market today is designed to provide the mobility and connectivity to help field users stay productive; its durability offering peace of mind for those in some of the dirtiest, wettest, most challenging and most critical workplaces. Updated features include an enhanced 1000 NIT FHD glove-capable display with anti-glare coatings, access to FirstNet, more powerful processors

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EXTREMELY RUGGED. EXTREMELY ACCURATE GPS.

1-2M ENHANCED GPS

MOBILE COMPUTING SOLUTIONS

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See: Juno T41 family | T41 RFID | Nomad 800/900 | Nomad 1050 | Ranger 3 | Recon | Yuma 2 | Kenel | Home | Trimble MCS website

5 "Print-style" PDFs of your reviews

SPECIAL REVIEW

MobileDemand xTablet T1180

IMPRESSIVELY RUGGED INTEL 8TH GENERATION 'AMBER LAKE' CORE POWERED 10.1-INCH WINDOWS 10 TABLET FOR HEAVY-DUTY MOBILE WORKFORCE APPLICATIONS, INDOORS OR OUTDOORS

By Conrad H. Bickenshorfer (photography by Geoff Cawley)



Why no one's ready to ditch tablets with reliable, rugged, and secure performance. MobileDemand's rugged tablets are built to last. They're designed to be used in the most demanding environments. They're built to last. They're designed to be used in the most demanding environments. They're built to last. They're designed to be used in the most demanding environments.

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