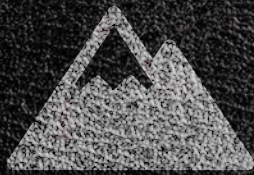


2018 FIELD GUIDE TO

DELL RUGGED DEVICES



WINTER 2018



Welcome to the Dell Rugged Series

The Dell Latitude Rugged Series of laptops and tablets are designed to perform in the harshest environments. Custom-built from scratch, they thrive under heavy industrial and military usage. Their armored exterior can survive drops from up to 72 inches. They are also protected against, vibrations, dust, sand, water, solar radiation, heavy moisture, and extreme temperatures.

Device Portfolio

- The ultra-light 7212 Tablet for high-mobility users in manufacturing and field service roles.
- The 12 Rugged Tablet for highly mobile users in the toughest of environments. Great for military, field service, and energy occupations.
- The 12 Rugged Extreme Convertible laptop for users with space limitations. Built for public safety, military, and field service.
- The 14 Rugged notebook for users demanding desktop-like performance in tough environments. Great for manufacturing and industrial roles.
- The 14 Rugged Extreme laptop for users in formidable environments. Built for military, field service, and energy sectors.



Table of Contents

Latitude 12 Rugged Tablet.....	04
Latitude 12 Rugged Extreme Laptop.....	05
Latitude 14 Rugged Laptop	06
Latitude 14 Rugged Extreme Laptop.....	07
Testing and Certification.....	08
Guide to IP and MIL-STD Codes	09
Your Exclusive Softchoice Technology Roadmap Session	10

Latitude 12 Rugged Tablet

Battle-Hardened Portability



The Latitude 12 Rugged Tablet has been designed to operate in extreme conditions. Its 11.6-inch display is Gorilla Glass-protected, and allows you to see in direct sunlight. The multi-touch display can be operated with thick gloves, and even responds in rain.

You can equip this tablet with powerful Intel Core M processors and up to 512 GB of solid state storage. It features both Wi-Fi and mobile connectivity with an on-board GPS. Its batteries are hot-swap capable, which means it remains operational during battery changes. It also operates in extreme heat with the help of QuadCool thermal management.

The tablet has undergone extensive military testing to ensure utmost durability. It's MIL-STD-810G results certify it to survive transit drops from up to 48 inches. It is also certified to perform in rain, dust, sand, vibration, salt fog, and solar radiation. It is IP-65 certified, which means it is protected against dust and water from all directions.

This tablet is ideal for users working in harsh military and industrial environments.

Soldiers and security officers. It's armored exterior, bright display, and all-weather performance is essential for soldiers.

Energy workers. With IP-65 and MIL-STD certifications, it is the perfect tablet for use on offshore oil rigs.

Field specialists. LTE connectivity and swappable batteries make it the perfect device for field specialists.

Essential Accessories



Rugged Tablet Dock

Enables connection to external monitor and keyboard/mouse. Also charges spare batteries.



Keyboard Cover with Kickstand

An IP-65 rated full-size keyboard with customizable backlight, extra screen protection and kickstand.



Dell Rugged Battery Charger

Keeps spare batteries charged and ready to power your day.



Havis Vehicle Dock

Provides secure connectivity to essential peripherals and efficient cable management.



Dell Rugged Extreme Handle

Makes carrying your tablet easy with a strong rubber handle.



Stylus

Dell-designed for excellent outdoor usage.

Latitude 12 Rugged Extreme Convertible Laptop

The Most Versatile Rugged Device



The Latitude 12 Rugged Extreme is the first-ever rugged laptop to feature a flip-hinge, glove-capable touch display. It switches between notebook and tablet modes in an instant for great versatility. It's also designed to endure serious punishment thanks to its rigid magnesium alloy core. Its shell is made of special shock-absorbent ultra-polymer materials that keep components safe.

You can equip this laptop with the latest Intel Core i7 processors and up to 16 GB of RAM. It can store large files with its optional 1 TB of removable solid state storage. It comes with high-speed Wi-Fi and mobile network connectivity for anytime, anywhere productivity. It can also operate in extreme heat due to its QuadCool thermal management system.

This laptop has passed highest levels of military testing with flying colors. It can survive transit drops from up to 72 inches and operating drops from 36 inches. It is MIL-STD-810G certified, which means it can handle rain, dust, sand, and shocks. It is also protected against humidity, salt fog, solar radiation, and thermal extremes. Its entry points are all compression gasket-sealed. It is also certified for IP-65 protection from sand, dust and liquids.

This laptop is ideal for users in public safety, field service, and energy production.

Police officers and security. Its design is great for limited spaces like patrol vehicles. 4G LTE ensures connectivity in remote locations. Multiple ports allow devices like card readers and video cameras to be hooked up.

Field scientists. This laptop gives field scientists the computing power to solve complex problems. Its tablet form also makes it easy for them to collaborate on-site.

Technicians on oil rigs and refineries. Teams working on rigs and refineries can analyze data in harsh environments. Its IP-65 and MIL-STD certifications ensure worry-free usage.

Essential Accessories



Dell Auto Air DC Adapter (90 Watt)

This adapter will help you stay productive on the road, in-flight or in your office.



Dell Power Companion (18,000 mAh)

Achieve new levels of productivity with this extra power source. This device will power your Dell Notebook and up to two smartphones or tablets.



Havis DS-DELL-403 No Dock Docking station.

Low-profile docking station that maximizes space, especially inside vehicles.

Latitude 14 Rugged Laptop

Purpose-Built to Perform Outdoors



This traditional laptop delivers best-in-class performance and enterprise-class security in harsh outdoor environments. Featuring an expansive 14-inch outdoor-readable display that reduces glare and reflections. It also features an optional customizable RGB backlit keyboard to seamlessly integrate into your environment, and optimize it for low lighting, allowing your keys to remain visible but not distracting. Its ports are all covered by mechanical doors that protect against dust and water.

This laptop can be equipped with the most powerful Intel Core i7 processors. It also supports up to 32 GB of RAM for lag-free performance in all situations. It even features a dedicated AMD Radeon video card to run heavy applications.

The Latitude 14 Rugged has undergone rigorous component qualification and high-cycle performance testing. It's MIL-STD-810G certification allows for transit drops from up to 36 inches. It is also graded for protection against dust, vibration, and shock. Humidity, altitude, and thermal extremes also have minimal impact. Its IEC 60529 rating is IP-52, which means it is protected from dust and dripping water.

This laptop is ideal for users in industrial/manufacturing and field service roles.

Aviation engineers. Powerful processors, a graphics card, and a glare-free screen make it a great choice for aviation engineers.

Industrial technicians. With protection against vibration and shock, this is the perfect laptop for heavy industrial usage.

Remote survey teams. LTE connectivity and great battery life make this the best device for conducting remote surveys.

Essential Accessories



Dell Auto Air DC Adapter - 90 Watt

This adapter will help you stay productive on the road, in-flight or in your office.



Dell Power Companion

Achieve new levels of productivity with this extra power source. It will extend your notebook's battery life, and power your smartphones and tablets.



Dell Rugged Desk Dock

This dock allows for easy transition between workspaces. It is compatible with all Latitude Rugged devices.



Havis DS-DELL-403 No Dock Docking station

Low-profile docking station that maximizes space, especially inside vehicles.

Latitude 14 Rugged Extreme Laptop

Military-Spec Device Designed to Outperform



The Latitude 14 Rugged Extreme laptop sets a new standard for the most extreme rugged devices. Its armored frame is built around a rigid magnesium alloy backbone. It also features exclusive shock-absorbent ultra-polymer materials. This allows the laptop to take serious abuse with ease. It's equipped with a glare-free resistive touch screen, which means it can be operated with heavy work gloves in direct sunlight.

This laptop is powered by the latest generation of Intel i7 processors. It can also be equipped with 32 GB of RAM and a dedicated AMD Radeon graphics card. This allows for seamless performance under heavy workloads. It also features a fingerprint reader, hot-swap battery for uninterrupted workflows and stealth mode. Stealth mode allows you to turn off the display, LED lights, speakers, fan, and wireless radio with a single key combination.

This laptop is a military-grade machine made to survive in harsh environments. It can survive transit drops from up to 72 inches and operating drops from 36 inches. It is MIL-STD-810G certified and is unaffected by rain, dust, and sand. It is also protected from vibration, shock, humidity, and temperature extremes. With its optional rubberized keyboard, it is also protected from salt fog. Its IEC 60529 rating is IP-65, which means it is protected from dust and pressurized water.

This device is ideal for users requiring a powerful, rugged device that will perform in all harsh scenarios.

Military and security personnel. Its shock-proof body, all-weather protection, and touch display make it the best laptop for military personnel.

Remote field workers. Advanced Wi-Fi and 4G LTE capability ensures remote users always stay connected. A dedicated GPS allows them to remain on-track. An optional hot-swap battery enables all-day productivity.

Oil rig engineers. Protection from water, moisture, and salt water fog make this the best option for the energy field. Powerful processors and dedicated graphic cards make it easy to run diagnostic applications.

Essential Accessories



Dell Shoulder Strap

Enhance the portability of your laptop with a lightweight and flexible shoulder strap.



Dell Auto Air DC Adapter - 90 Watt

This adapter will help you stay productive on the road, in-flight or in your office.



Dell Power Companion (18,000 mAh)

Achieve new levels of productivity with this extra power source. This device will power your Dell Notebook and up to two smartphones or tablets.



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Low-profile docking station that maximizes space, especially inside vehicles.

Determining Toughness with Testing and Certification

How to read IP and MIL-STD codes

Use the key below to see how a particular device is tested against international standards.

IP Codes

First Number

- 0 - No protection (Sometimes X)
- 1 - Protected against solid objects up to 50mm²
- 2 - Protected against solid objects up to 12mm²
- 3 - Protected against solid objects up to 2.5mm²
- 4 - Protected against solid objects up to 1mm²
- 5 - Protected against dust, limited ingress (no harmful deposit)
- 6 - Totally protected against dust

Second Number

- 0 - No protection (Sometimes X)
- 1 - Protection against vertically falling drops of water (e.g. condensation)
- 2 - Protection against direct sprays of water up to 15° from vertical
- 3 - Protection against direct sprays of water up to 60° from vertical
- 4 - Protection against water splashed from all directions - limited ingress permitted
- 5 - Protected against low pressure jets of water from all directions- limited ingress permitted
- 6 - Protected against powerful jets of water or heavy seas - limited ingress permitted
- 7 - Protected against the effect of immersion- between 15cm and 1m for 30 minutes
- 8 - Protected against long periods of immersion under pressure - user stated requirement

Dell Rugged devices are tested and certified to MIL-STD-810G, IEC 60529 standards.

MIL-STD-810 is maintained by a tri-service partnership that includes the USAF, the US Army, and the US Navy. It tests and rates the environmental worthiness and overall durability of systems to the highest military standard.

The IP Code stands for International Protection Marking. It is also called IEC standard 60529. It classifies and rates the degree of protection provided against intrusion, dust, accidental contact, and water by mechanical casings and electrical enclosures.

MIL-STD test results

Test Method 500.5 Low Pressure (Altitude)
Test Method 501.5 High Temperature
Test Method 502.5 Low Temperature
Test Method 503.5 Temperature Shock
Test Method 504.1 Contamination by Fluids
Test Method 505.5 Solar Radiation (Sunshine)
Test Method 506.5 Rain
Test Method 507.5 Humidity
Test Method 508.6 Fungus
Test Method 509.5 Salt Fog
Test Method 510.5 Sand and Dust
Test Method 511.5 Explosive Atmosphere
Test Method 512.5 Immersion
Test Method 513.6 Acceleration
Test Method 514.6 Vibration
Test Method 515.6 Acoustic Noise
Test Method 516.6 Shock
Test Method 517.1 Pyroshock
Test Method 518.1 Acidic Atmosphere
Test Method 519.6 Gunfire Shock
Test Method 520.3 Temperature, Humidity, Vibration, and Altitude
Test Method 521.3 Icing/Freezing Rain
Test Method 522.1 Ballistic Shock
Test Method 523.3 Vibro-Acoustic/Temperature
Test Method 524 Freeze / Thaw
Test Method 525 Time Waveform Replication
Test Method 526 Rail Impact.

Test Method 527 Multi-Exciter

Test Method 528 Mechanical Vibrations of Shipboard Equipment (Type I – Environmental and Type II – Internally Excited)

Your mobile teams work in the harshest of environments around the world. From offshore oil rigs to remote open-pit mines, their office is wherever their next project takes them. This means your mobile workers don't always have the luxury to use devices with delicate care. They also cannot afford devices to fail due to rough usage and adverse weather. They need rugged devices that can be counted on to perform in the most inhospitable situations.

This one requirement makes common laptops and tablets obsolete for your mobile teams. What they need are specialized devices tailor-made to withstand extreme working conditions.

Softchoice Technology Roadmap

If you need to develop an effective rugged device strategy to meet the evolving needs of your people and business but...

- You are unclear about how or if the Dell Rugged Series will support your existing applications today and in the future
- You lack the time and expertise to navigate the rugged device landscape and purchasing programs to determine what's best for your people and business
- You are concerned about how the impact of changes to devices will be received by end-users

Then...

You need the Softchoice Technology Roadmap consultation to create a rugged device strategy that saves time and money and supports the needs of your business and people.

What you'll gain...

- Expert-led technology review to ensure rugged devices align to the needs of the business and end-users and are compatible with applications.
- Detailed insights into rugged product roadmaps, including future form factors and purchasing programs.
- A quarterly review of device standards to ensure devices are properly aligned as the technology landscape and the needs of your business evolve.

When you work with Softchoice, our agnostic computing specialists will conduct a complete review of your current state and how well it is meeting both business and end-user needs. You'll gain insights into product roadmaps to identify the most relevant devices and how to leverage vendor purchasing programs to secure the best possible pricing. And we'll help keep you on track by providing ongoing reviews to make sure you're achieving your desired outcomes and getting ahead of the planning curve. The end result? Greater cost savings, compatibility, productivity, and more satisfied employees.

Next Steps

Request a complementary consultation with a Softchoice Rugged Device Specialist to learn more about how a Technology Roadmap conversation can help your business.

[LEARN MORE](#)




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