

What is Fully Rugged?

Fully Rugged

Mobile computers designed to meet MIL-STD 810-F and AT LEAST IP54 standards

Rugged (aka Semi-Rugged or Durable)

Mobile computers designed to meet IP54 standards (but not MIL-STD 810-F)."

What is MIL-STD?

A series of standards issued by the US Army's Development Test Command to specify various environment tests to simulate conditions that the item will encounter in the field...this standard may be applied to commercial applications as well.. **to eliminate risk of arbitrary definitions for comparison**

MIL-STD 810G states: drops on all faces, sides and corners.

What is IP Rating?

The International Protection Rating or Ingress Protection Rating as defined by standard IEC 60529 which classifies degrees of protection against the intrusion of solids or water, **to provide users more detailed information than vague marketing terms such as "waterproof."**

IP6x = Protected from dust and water sprays

IP5x = Protection against enough entry to interfere with operation

IPx4 = Protection against rain or water spray at any angle

On the next page is the full guide of the IP rating system:

First number (Protection against solid objects)	Definition	Second number (Protection against liquids)	Definition
0	No protection	0	No protection
1	Protected against solids objects over 50mm (e.g. accidental touch by hands)	1	Protected against vertically falling drops of water
2	Protected against solids objects over 12mm (e.g. fingers)	2	Protected against direct sprays up to 15° from the vertical
3	Protected against solids objects over 2.5mm (e.g. tools and wires)	3	Protected against direct sprays up to 60° from the vertical
4	Protected against solids objects over 1mm (e.g. tools, wires and small wires)	4	Protected against sprays from all directions - limited ingress permitted
5	Protected against dust - limited ingress (no harmful deposit)	5	Protected against low pressure jets if water from all directions - limited ingress permitted
6	Totally protected against dust	6	Protected against strong jets of water e.g. for use on shipdecks - limited ingress permitted
		7	Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes
		8	Protected against long periods of immersion under pressure