

Six things your redundant pair shares

Check before you claim redundancy

Power

One board, one UPS, one breaker upstream of both

Time

One source can disorder both histories at once

Configuration

The same latent defect, deployed twice

Engineering access

One laptop, one credential set, one session

Maintenance

One procedure, one technician, one shift

Common cause

Heat, water, vibration, EMC, a shared cable tray

Redundancy does not protect against a fault you installed twice.

Parallel maths assumes independence — the moment both channels depend on one thing, the calculation is fiction for every failure that thing can cause.