ERDI SPD1200N3

Component datasheet · ERDI TECH LTD · laser rangefinder modules and eye-safe laser sources

Model	**SPD1200N3**
Family	905nm
Wavelength	905 ± 5 nm — Ranging emitter; not the indication-laser wavelength
Measuring range (with the condition it was measured under)	3-1000 m — Building target; visibility ≥10 km; humidity ≤60%
Accuracy / resolution	±0.5 m at d ≤100 m; ±(0.5 m + 0.00075d) for 100 m < d <1000 m — d is distance in meters; no additional endpoint accuracy inferred
Update rate	2.5-15 Hz — Varies with distance; not the laser pulse repetition rate
Interface	UART, 3.3 V TTL; customizable
Supply	DC 3.3-5 V — Does not imply 5 V tolerance on serial inputs Average power consumption ≤0.5 W
Power	—
Mass	≤6 g
Dimensions	—
Operating temperature	-20 to +60 °C Nominal body dimensions / material 14 × 18 × 22.3 mm; rectangular; 6061 aluminum alloy — Use the controlled mechanical drawing
Laser class	—
Pulse energy	—

How to read the range figure. A range number without its target size, reflectance and visibility is not comparable to anything. The figure above carries the manufacturer's own condition, quoted verbatim. If you need a different target or a different visibility, ask — the usable range changes, and we would rather state both than let you discover it in the field.

What is not in this sheet. Pinout, command frames and the protocol document are supplied with the units, matched to your firmware revision. We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.

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