ERDI LRF1221C

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

Model	**LRF1221C**
Family	1535nm
Wavelength	1.54 ± 0.02 μm (source wording; equivalent to 1540 ± 20 nm)
Measuring range (with the condition it was measured under)	4 × 6 m target ≥12 km at 30% reflectance and visibility ≥15 km Minimum range (source upper bound) ≤50 m
Accuracy / resolution	/ resolution ±2 m; range resolution ≤0.1 m
Update rate	0.5-10 Hz Beam divergence ≤0.3 mrad
Interface	Specification table: RS-422; interface section: selectable TTL (3.3 V) or RS-422. Confirm ordered variant.
Supply	DC 12 V; verify the conflicting RS-422 connector labels before wiring
Power	Average ≤2 W; peak ≤3 W at 10 Hz; standby ≤1.2 W
Mass	≤275 g
Dimensions	107 × 62 × 72 mm
Operating temperature	-40 to +70 °C; storage -55 to +75 °C
Laser class	—
Pulse energy	≥300 μJ

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 We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.