



# LRF1™

## 1535 nm 3 km Laser Range Finder Module

TLRF3 laser range finder module based on the 1535 nm erbium laser can be produced for various performance requirements and has a maximum measuring range up to >6 km. Complete module with communication ports TTL or RS-422 can be integrated into variety of platforms. In any implementation, the device is eye-safe Class and can be easily integrated into handheld system or be platform-mounted. With the visibility not less than 12 km, humidity <80%,

- Ranging distance for large targets such as building – >5 km
- Ranging distance for vehicles (2.3 x 2.3 m with reflectance >33%) - >3 km
- Ranging distance for personnel (1.75 x .5 m with reflectance >33%) - >2 km
- Ranging distance for UAV (.2 x .3 m with reflectance >33%) - >1 km

### Specifications

|                              |                  |
|------------------------------|------------------|
| Laser Wavelength             | 1535 nm +/-5 nm  |
| Laser Divergence Angle       | <.5 mrad         |
| Continuous Ranging Frequency | 1-10 Hz          |
| Ranging Accuracy             | <1 m             |
| Minimum Measuring Distance   | 15 m             |
| Power Supply                 | 5-28V DC         |
| Size                         | 50 x 20 x 30 mm  |
| Weight                       | <32 g            |
| Operating Temperature        | -40° C to +70° C |
| Shock Management             | 75 g for 6 msec  |
| Communication Potocol        | RS422, 115 Kbps  |

