

0 – 3,000 M · ONE WAVELENGTH

905 NM MODULE LINE-CARD

Every module is 905 nm, Class-1 eye-safe (IEC 60825-1) and speaks UART-TTL. One overview of the full family — request the per-model datasheet or a quote for any line.

MODEL	RANGE	ACCURACY	FREQUENCY	INTERFACE	SIZE	WEIGHT
FLAGSHIP – LONG-RANGE COMPACT						
LRF3000A1	≥ 3,000 m	±0.7 m (≤100 m)	3–10 Hz adaptive	UART-TTL 3.3 V	13.5 × 25.1 × 27.8 mm	12 g
LRF1200A1	≥5–1,200 m	±1 m (5–100 m)	1–3 Hz	UART, TTL 3.3 V	Φ23 × 40 mm	18 g
SPD MINI – NIGHT VISION & THERMAL						
SPD1200M2	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	7.7 × 15.3 × 27.85 mm	≈ 6 g
SPD1200H2	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	Ø17 × 28.2 mm	≤ 6 g
SPD1200M4	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	9.45 × 16.8 × 27.85 mm	≈ 6 g
SPD1200M17	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	Ø17 × 27.85 mm	≈ 6 g
SPD1200N0	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	Ø15.7 × 21.3 mm	≈ 5 g
SPD1200N2	0.2–1,200 m (1,500 m night)	±0.3 m (≤100 m)	2–15 Hz adaptive	UART-TTL	Ø15.7 × 21.3 mm	≈ 5 g
SPD1200D03	0.2–≥1,200 m	±0.3 m (≤100 m)	2–15 Hz adaptive	UART, TTL 3.3 V	10.7 × 16.8 × 22 mm	On request
SPD1200N4	0.2–1,200 m	±0.3 m (≤100 m)	On request	UART-TTL	On request	On request
ADAPTIVE-FREQUENCY E SERIES						
LR1500E2	4–1,500 m (1,800 m night)	±1 m (≤500 m)	2–10 Hz adaptive	UART-TTL	25.65 × 13.2 × 24.6 mm	≤ 10 g
LR1000E2	4–1,000 m	±1 m (≤400 m)	3–10 Hz adaptive	UART-TTL	25.65 × 13.2 × 24.6 mm	≤ 10 g
LR1200E2	4–1,200 m (max 1,500 m night)	±1 m (≤500 m)	2–10 Hz adaptive	UART-TTL	25.65 × 13.2 × 24.6 mm	≤ 10 g
LR2000E2	4–2,000 m	±1 m (≤400 m)	2–10 Hz adaptive	UART-TTL	25.65 × 13.05 × 24.6 mm	≈ 10 g
LR1000E4	4–1,000 m	±1 m (≤400 m)	On request	UART-TTL	On request	On request
LR1200E4	4–1,200 m	On request	On request	UART-TTL	25.65 × 14.2 × 26.2 mm	On request
LR1500E4	4–1,500 m	On request	On request	UART-TTL	25.65 × 14.2 × 26.2 mm	On request
LR2000E4	4–2,000 m	±1 m (≤400 m)	2–10 Hz adaptive	UART-TTL	On request	On request
CLASS-1 D SERIES						
LR1200D23	4–1,200 m	±1 m	2–10 Hz	UART-TTL	Ø23 × 45.6 mm	≈ 20 g
LR600D23	5–600 m	±1 m	2–10 Hz	UART-TTL	Ø23 × 47 mm	≈ 20 g
LR1000D23	4–1,000 m (max 1,200 m)	±1 m	3–12 Hz	UART-TTL	Ø23 × 47 mm	≈ 20 g
LR1500D23	4–1,500 m	±1 m	2–10 Hz	UART-TTL	Ø23 × 45.6 mm	≈ 20 g
COMPACT TUBE SERIES (B / C)						
LR1000B23	4–1,000 m (max 1,200 m)	±1 m	2–10 Hz	UART-TTL	Ø23 × 45.6 mm	≈ 20 g
LR1000C3	4–1,000 m	±1 m (≤500 m)	3–10 Hz adaptive	UART-TTL	30 × 19 × 29 mm	≤ 16 g
LR1000C4	4–1,000 m	±1 m (≤500 m)	3–10 Hz adaptive	UART-TTL	28.8 × 30.5 × 20.9 mm	≤ 16 g
SPD INTEGRATION SERIES						
SPD1200S2	0.2–1,200 m (1,500 m night)	±0.3 m (≤400 m)	4–15 Hz adaptive	UART-TTL	24.6 × 14.45 × 26.3 mm	≤ 10 g
SPD1200S2G	0.1–1,200 m (max 1,400 m)	±0.2 m (≤400 m)	2–20 Hz adaptive	UART-TTL	24.6 × 11.4 × 26.3 mm	≈ 10 g
SPD1200Z2	0.2–1,200 m (1,500 m night)	±0.2 m (≤200 m)	2–20 Hz adaptive	UART-TTL	7.2 × 14.8 × 28.2 mm	≈ 6 g
SHORT-RANGE DTOF						
LRF10VB *	0.05–9 m (90% refl.)	±5 cm (<5 m); 1% (≥5 m)	50 Hz	UART	12 × 7.5 × 9.1 mm	1 g
LRF22VB	0.05–20 m (90% refl.)	±5 cm (<5 m); 1% (≥5 m)	200 Hz (sel. 200/100/50/20/10/1 Hz)	UART / I²C	21 × 15 × 7.43 mm	1.5 g
LRF50VB	0.05–50 m (90% refl.)	±5 cm (<5 m); 1% (≥5 m)	100 Hz	UART / I²C	18.7 × 11.8 × 13.3 mm	1.3 g
LRF50H	0.05–50 m (90% refl.)	±5 cm (<10 m); 1% (≥10 m)	20 Hz–10 kHz (default 1 kHz)	UART	38 × 20 × 30 mm	15 ± 2 g
LRF100H	0.05–100 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	20 Hz–10 kHz (default 1 kHz)	UART / I²C	33 × 34 × 18 mm	20 ± 2 g
LRF200H	0.05–200 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	20 Hz–10 kHz (default 1 kHz)	UART / I²C	33 × 34 × 18 mm	20 ± 2 g
LRF300H	0.05–300 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	1 kHz or 50 Hz (auto-switch)	UART / I²C	33 × 34 × 18 mm	20 ± 2 g
LRF600H	0.05–600 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	1 kHz or 50 Hz (auto-switch)	UART / I²C	33 × 34 × 18 mm	20 ± 2 g
LRF1500H	0.05–1,500 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	1 kHz or 50 Hz (auto-switch)	UART / I²C	33 × 34 × 18 mm	20 ± 2 g

* LRF10VB is 940 nm per its verified source specification (every other model in this line-card is 905 nm) — retained in the short-range DToF series per current product scope.

