

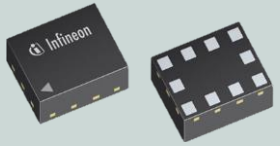
# Product family overview
# **REAL3™ VCSEL driver ICs**

February 2026

public

# Infineon's REAL3™ VCSEL driver ICs

## Highly integrated, fast-switching VCSEL driver ICs for voltage mode control

| Features | IRS9102C | IRS9103A |
|---|---|---|
| **Focus application** | **Consumer** | **Automotive & Industrial** |
| **Laser supply voltage** | up to 6 V | up to 14 V |
| **Laser current** | 12 A peak | 10 A peak |
| **Number of channels** | 1 | 1 / serial driving of several multi-junction VCSEL possible |
| **Modulation frequency** | up to 250 MHz | up to 130 MHz |
| **Pulse width** | 1.5 – 2500 ns | 1.5 – 2500 ns |
| **Rise & fall time** | < 0.8 ns | < 0.8 ns |
| **Driver supply voltage** | 2.52 V – 3.7 V | 3.1 V – 3.6 V |
| **Modulation signal interface** | LVDS | LVDS |
| **Technology / Quality Level** | C11HV / Consumer Grade | C11HVA / Automotive AEC-Q100, Grade 2 |
| **Amb. Temperature Range** | -40 to 85°C | -40 to 105°C |
| **Additional features** | • Pulse width limiter<br>• Over-temperature protection and brown-out detector<br>• Enable pin | • Pulse width limiter<br>• Over-temperature protection and brown-out detector<br>• Enable pin |
| **Package and dimension** | PG-TSNP-10: 1.1 x 1.5 x 0.45 mm<br>(replacement for IRS9100C)  | PG-WFWLB-9: 1.35 x 1.35 x 0.65 mm  |




Copyright © Infineon Technologies AG 2026. All rights reserved.


Infineon