



IHS TECHNOLOGY INTELLIGENCE SERVICE

Automotive Sensors

FEATURED TOPICS

- Mergers and acquisitions among sensor vendors
- Trends affecting the market (safety mandates, emissions regulations, NCAP, ISO26262 functional safety provisions)
- Component price developments (1st level package and final module)
- Technology competitive landscape
- Supply chain analysis and annual performance review of top sensor suppliers

Comprehensive coverage of sensor technology used in the automotive industry including analysis of the current and future market opportunities

Real time access to a continuous flow of research across geographies, topics and application areas:

Analyst Insights

Frequent analyst commentary on market news as it happens

Analyst Access

For prompt responses to urgent and unique questions.

Market Trackers

Historic and forecasted, delivered in Excel and in IHS TRAX®, an online analysis tool accompanied by written analysis.

The Automotive Sensor Intelligence Service provides

Automotive MEMS market tracker – containing detailed shipment, average selling price and revenue forecasts, in addition to market share information for the key tier-2 suppliers of nine MEMS device categories across 27 automotive application fields; updated semi-annually with annual written analysis.

Automotive magnetic sensor market tracker – detailed shipment, average selling price and revenue forecasts for 9 measurement types and 4 technologies used in 70+ applications; includes market share of the key automotive tier 2 suppliers for key applications; updated semi-annually with annual written analysis.

ADAS sensor market tracker – encompassing shipment, average selling price and revenue forecasts, in addition to market share information for the suppliers of 13 types of advanced driver assistance sensor chips; this tracker is updated semi-annually with annual written analysis.

Powertrain sensor market tracker – comprising detailed shipment and revenue forecast information for 26 types of engine and exhaust sensor modules for 200+ OEMS; updated semi-annually with annual written analysis. Data granularity reaches model level for a total of more than 40,000 engine combinations.

Research Coverage

MEMS	Magnetic Sensor	ADAS Sensors	Powertrain Sensors
Device categories Pressure (By pressure range) Accelerometers (By # of axis) Gyroscopes Combo inertial sensors Flow sensors Microbolometers Gas-Chemical sensors Thermopiles Crash sensing (Sound sensors) Valves Scanning mirrors DLP	Technologies Hall effect AMR GMR Other (MI, TMR) Measurements 3D Hall (Linear position) Angular position Current Field Linear position Position Speed Switch Torque	Image sensors CMOS vs. CDD VGA vs. HD Infrared sensors Far infrared vs. near infrared LIDAR and Laser sensors Transmitter vs. emitter Radar sensors Breakout by range and by frequency Ultrasonic sensors	28 sensor modules Speed Position Pressure Temperature NOx O2 Particulate matter

Applications (>100)

Powertrain

air-fuel ratio (WB oxygen), air intake temperature, crankshaft sensor, camshaft sensor, cylinder pressure, EGR position, EGR pressure, engine coolant temperature, exhaust gas temperature, exhaust gas pressure, fuel level, fuel injection pressure, knock sensor, lambda sensor, mass air flow, manifold absolute pressure, nox sensor, oil pressure switch, PM (Soot) sensor, SCR tank level, SCR tank temperature, throttle position, turbo speed sensor

MEMS

active suspension, air intake, airbag, automatic transmission, barometric air pressure, built-in navigation, cabin air quality, cabin HVAC, cabin temperature, anti-fog, continuous variable transmission, crash sensing, diesel common fuel rail, diesel particle filter, dual clutch transmission, E-call, accident sensor, electronic parking brake, ESC, exhaust gas recirculation, fuel pressure (low P side), fuel tank vapor, gasoline direct injection, head up display (aftermarket), head up display (original mount), HVAC / windscreen management, in-cylinder pressure, manifold absolute pressure, mass air flow, night vision, oil pressure, passenger occupation detection, pedestrian protection, roll detection, tire pressure monitor, vacuum brake booster, vehicle alarm, hands-free interface, noise cancellation array

Magnetic

ABS (wheel speed), acceleration pedal, air control valve, air intake flap motor, automatic, AMT, DCT transmission, auxillary water pump motor, battery monitoring applications, boot (trunk) lock, brake by wire motor, brake fluid level, brake light switch, camshaft, chassis height, clutch position, compass, coolant level, crankshaft, diesel common fuel rail motor, door lock, dual clutch and AMT motor, front window motor, power steering motor, rear window motor, roof (open/close), roof motor, sunroof motor, electrohydraulic power steering motor, throttle motor, throttle valve, engine cooling fan, EV, PEHV, HEV engine cooling pump motor/ HVAC compressor motor/ propulsion motor, exhaust control valve, exhaust gas recirculation valve motor, exhaust gas recirculation valve position, fuel tank level, head rest motor, head rest position, HEV / EV battery monitor, HEV / EV DC-DC subsystem inverter, HEV / EV motor inverter, HVAC valve position, neutral position (manual), oil level, seat belt presence detection, seat motor, seat track position, selector lever position, steer by wire motor, steering wheel angle, steering wheel torque, turbocharger motor, turbocharger position, vacuum brake booster pump, variable lift control actuator, various switch applications, water loop actuator (thermal), windscreen wiper, windscreen wiper motor

Measures

Revenue
Unit shipment

ASP
Market shares

Related Research

[Automotive Semiconductor](#)
[MEMS & Sensors for Consumer & Mobile](#)
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