

Introducing New Advanced Automotive Safety Pressure Sensors



FXPS7140X, features a small package (4 mm x 4 mm x 1.98 mm), absolute pressure range of 40 to 132.8 kPa in three flavors, and delivers highly accurate absolute and relative pressure through configurable DSI3 and PSI5 interfaces.

Automotive Safety Pressure Sensors are a MUST have in every vehicle today!

Key Parameters:

- 16 pin QFN 4 mm x 4 mm x 1.98 mm package
- Inspectable solder joints
- Two pressure range options are available:
 - 40 kPa to 132.8 kPa
 - 50.9 kPa to 126.5 kPa (NEW)
- Supports user configurable DSI3 and PSI5 interfaces and embeds a DSP with digital low pass filtering
- Robust design for EMC and mechanical handling
- Self-test diagnostic
- -40 °C to 125 °C operating temperature range

FXPS7140x is available for ordering NOW!

Target Applications

- Airbag and crash detection
 - Lateral crash detection
 - Pedestrian protection systems
- Pinch detection for doors and windows
- Side crash detection

Discovery Questions (is this product right for me?)

- ✓ Do you need automotive safety pressure sensors?
- ✓ Do you need ASIL-B functional safety compliant devices?
- ✓ Do you need internal self-test capability?
- ✓ Do you require a device which can support DSI3 or PSI5 interfaces?
- ✓ Are you looking for a robust design?
- ✓ Are you looking for a small and compact footprint?
- ✓ Are inspectable solder joints important for your design?

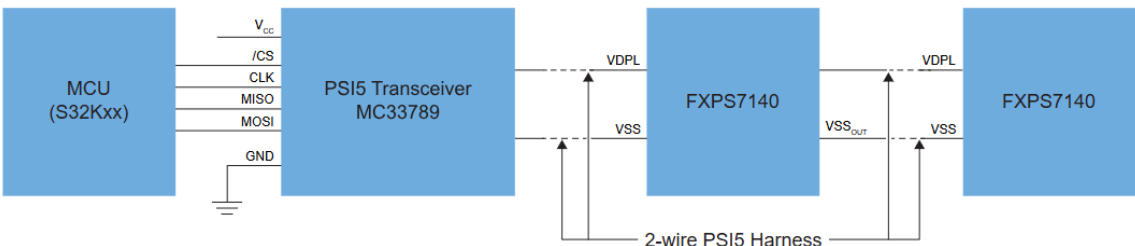
Evaluation Boards

1) Evaluation Tool for Automotive Sensors

The [SEN-SPI-BOX](#) kit graphs real-time data, executes custom scripts and verifies sensor status.



NXP Technology

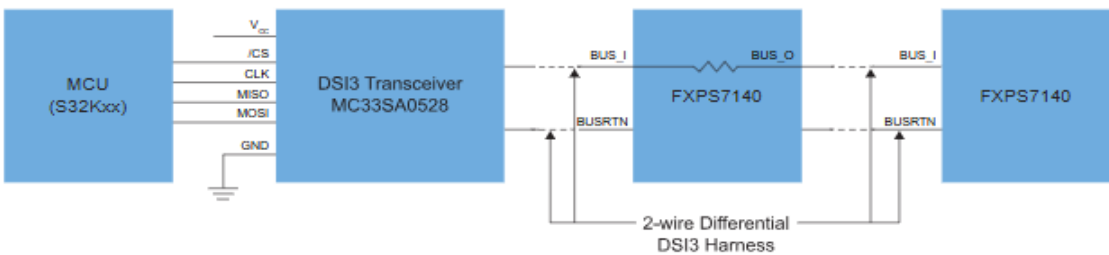


2) FXPS7 Sensors Families

The [SEN-GEN6-SKT](#) board is a socket kit designed to evaluate the FXPS7x sensor families. The board supports different communication configurations such as SPI, I2C, DSI3 or PSI5.



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Market Challenges & NXP Solution Advantages

Need reliable and quality supply



NXP's extensive track record in MEMS sensors supply: 4 billion units shipped & longevity

Small package size



Enables small module design for lighter weight and space-constrained applications

Automotive Safety



AEC-Q100 ISO26262:2011 ASIL B, Robust design for mechanical handling

Self-test diagnostic



Internal self-test for transducer and signal chain

Collateral






Public Collateral

- [Product Summary Page](#)
 - [FXPS71407BPS Datasheet \(NEW\)](#)
 - [FXPS7140P7S Datasheet](#)
- [DSI3 communication procedure recommendations for FXPS7140X](#)

Remove the below section if you want to re-send to customers

Distributors Call to Action

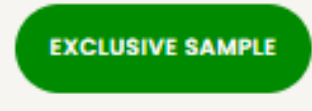
- Use this Available Collateral to start building your web pages and demand creation.
- Review the Recommended Stocking and place your orders now.

DistyNet Collateral			
Enclosed <div></div>	<ul style="list-style-type: none">CommunicatorRecommended Stocking	DistyNet Collateral <div></div>	<ul style="list-style-type: none">Six PackRecommended StockingCompetitive AnalysisCommunicatorFXPS7140 Extranet ImagesSEN-SPI-BOX – Extranet ImagesSEN-GEN6-SKT – Extranet Images
Contact <div></div>	Contact your local NXP representative for supply and stocking inquiries. Will Abdeh for product questions. Claudia Americano for NPI Launch questions.		

Suggested stocking

12NC	Orderable Part Number (OPN)	Suggested For Stocking	Embargo Date for web "Coming soon"	Order Date	Approx. Qual/ Ship Date – Lead time (weeks)	Sample availability	Suggested Stocking	MOQ
935443851547	FXPS71407BPSTI (NEW)	Y	Now	Now	35 weeks standard delivery time (stock available for immediate fulfillment)	Order Samples Now	2000	2000
935440989547	FXPS7140P7STI	Y	Now	Now	35 weeks standard delivery time	Order Samples Now	2000	2000
935440988547	FXPS71407STI	N	Now	Now	35 weeks standard delivery time	Order Samples Now	N	2000
935416925598	SEN-SPI-BOX	N	Now	Now	26 weeks	N/A	N	1
935416924598	SEN-GEN6-SKT	N	Now	Now	26 weeks	N/A	N	1

Exclusive Sample Program is Available NOW!!



NXP’s Exclusive Sample Program is available to you as an Authorized Distributor. Log in to nxp.com, access the [Product Page](#) for each part, then choose the Exclusive Sample button as shown above and enter your desired quantity. Please don’t hesitate to contact Marketing for assistance.



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