

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 DS13 and PS15 interfaces.

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

Target Applications

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

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 DS13 and PS15 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

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 DS13 or PS15 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?

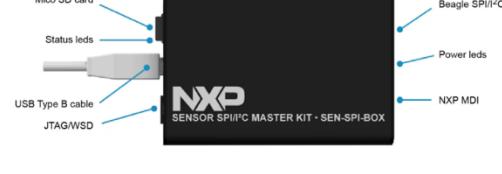
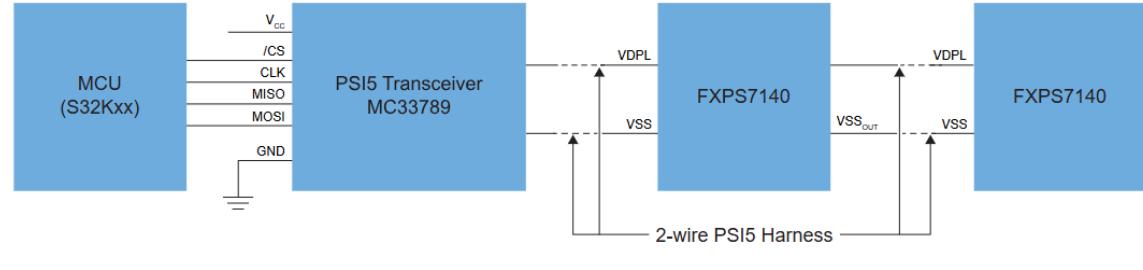
[FXPS7140x is available for ordering NOW!](#)

Evaluation Boards

Application Diagrams (PS15 and DS13)

1) Evaluation Tool for Automotive Sensors

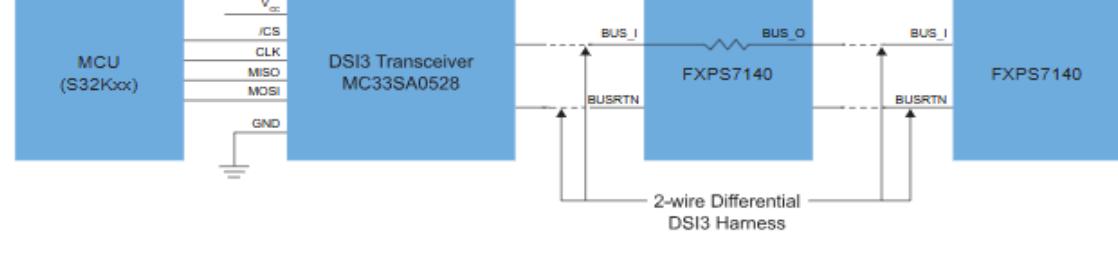
The [SEN-SPI-BOX](#) kit graphs real-time data, executes custom scripts and verifies sensor status.



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, DS13 or PS15.



NXP Technology

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 	<ul style="list-style-type: none">• Communicator• Recommended Stocking	DistyNet Collateral 	<ul style="list-style-type: none">• Six Pack• Recommended Stocking• Competitive Analysis• Communicator• FXPS7140 Extranet Images• SEN-SPI-BOX – Extranet Images• SEN-GEN6-SKT – Extranet Images
Contact 	<p>Contact your local NXP representative for supply and stocking inquiries.</p> <p>Will Abdeh for product questions. Claudia Americano for NPI Launch questions.</p>		

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	FXPS71407BPST1 (NEW)	Y	Now	Now	35 weeks standard delivery time (stock available for immediate fulfillment)	Order Samples Now	2000	2000
935440989547	FXPS7140P7ST1	Y	Now	Now	35 weeks standard delivery time	Order Samples Now	2000	2000
935440988547	FXPS71407ST1	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!!

EXCLUSIVE SAMPLE

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