The PurpleBox is a reference design for distributed radar sensor architectures designed to aggregate and process four corner radar sensors at once, receiving compressed Range FFT data and producing a high-density surround point cloud. The PurpleBox can be used as a reference ECU and is a key component of a radar bridge proof-of-concept based on NXP's S32R45 radar processor. It comes with a comprehensive software development environment as well as with a M.2 PCIe interface which can be used to attach a mass storage device or a Hailo-8 machine learning accelerator.

To evaluate a distributed radar architecture, our Pluto radar sensor together with the PurpleBox can be used. The Pluto Radar sensor reference design enables customers to evaluate corner and front radar applications.

The PurpleBox reference design is available for selected customers with an approved NDA. For additional information, contact support or your local sales representative.
View additional information for PurpleBox Reference Design for Distributed Radar Architectures.

Note: The information on this document is subject to change without notice.