Features

- Evaluation board for the OTB103 24-40 GHz wideband 8 channel Tx/Rx TDD Beamformer
- High Performance 2.4mm vertical mount connectors used for all millimeter wave signals
- Built in calibration lines for loss compensation
- The chip is controllable through 1.8V LVDS or 1.2V CMOS SPI Interface
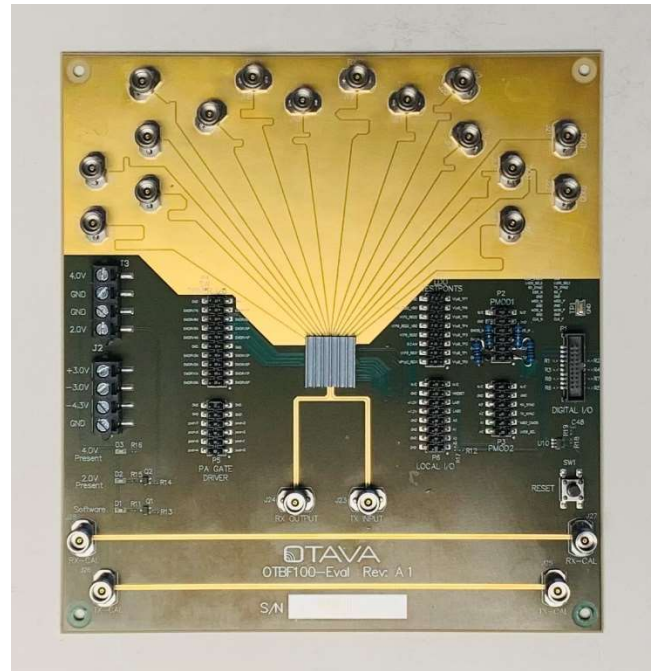- All DC and digital I/O accessible through header connectors

Description

The OTBF103-EVAL is an evaluation board that is designed to test the performance of the OTBF103 24-40GHz wideband transmit/receive beamforming chip. All RF, analog, and digital content I/Os are made available for evaluation. Please refer to the OTBF103 datasheet for full details on the device.

The OTBF103-EVAL can be exercised with the full Avnet evaluation kit which includes a MicroZed digital controller with accessories and a software GUI by Avnet (link: Avnet.me/OtavaBFIC). The digital hardware is controlled with a Windows based PC through a USB connection for exercising the beamformer IC.
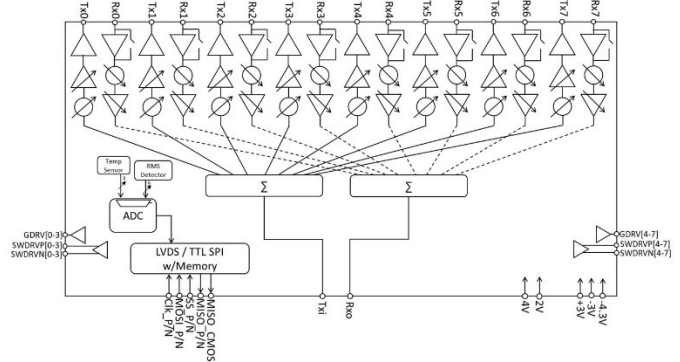
Required External Equipment

- Beamformer Evaluation Kit
- Power Supplies: +2V,+4V (RF, Digital)
    Optional: +3V,-3V, -4.3V (Gate Drivers)

OTBF103 Evaluation Board

OTBF103 IC Block Diagram

Applications

- n257, n258, n260, n261 5G NR small cell
- SATCOM, EW, Radar