TRX Half-duplex Beamformer for mmWave 5G

6/1/2021 – San Jose, California: RFMW announces design and sales support for a beamforming IC from Renesas. The **F5288** is an eight-channel TRX half-duplex silicon beamformer IC designed using a SiGe BiCMOS process for 28 GHz dual polarization 5G phased-array applications. The core IC has very flexible gain and phase control on each channel to achieve fine beam steering and gain compensation between radiating channels. The core design includes standard SPI protocol that operates up to 50 MHz with fast-beam switching and fast beam-state loading. Renesas’ phased array beamforming ICs enable cost-effective, next generation system solutions for mmWave 5G, Satcom, and radar applications. Each beamforming IC contains multiple independently controlled active channels for element-level beam pattern shaping in electronically scanned array antennas (ESAs). The compact ICs are available in chip-scale BGA packages to enable very low profile and small form factor phased array antennas with λ/2 element spacing. The ICs are available as transmit-only (Tx), receive-only (Rx), or transmit/receive (TRx) variants such as the **F5288** and cover 5G mmWave, Satcom and radar frequency bands. Renesas’ beamformer product line is rapidly expanding to keep up with the growing commercial demand for affordable phased array antennas.

Samples are available for qualified requirements through RFMW at 1-877-FOR-RFMW (367-7369) within North America; or please find your local sales engineer (worldwide) at the contact page on the RFMW web site.

About RFMW

RFMW is a specialty electronics distribution company focused exclusively on serving customers that require RF and microwave components and semiconductors, as well as component engineering support. The company continues to expand its list of products from selective suppliers with RF/microwave expertise. RFMW deploys a highly experienced, technically skilled team to assist customers with component selection and fulfillment.

To learn more about RFMW, visit their Website at [www.rfmw.com](http://www.rfmw.com), or call us at 1.877.FOR.RFMW (367-7369), or via e-mail at [info@rfmw.com](mailto:info@rfmw.com).

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