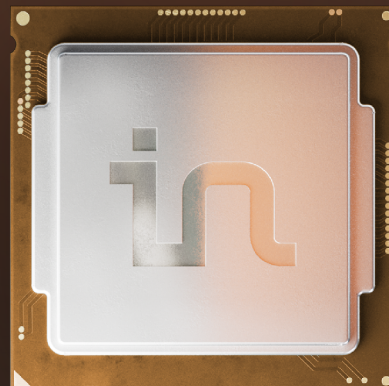


— HYBRID BEAMFORMING IC • KA-BAND GROUND TERMINALS

Horizon8.800

Eight-Channel TRx Data Converter IC for Hybrid Beamforming Arrays

Wideband data conversion with digital channel selection, enabling simplified RF front end modules.



Horizon8.800 is a data converter IC for hybrid beamforming Ka-band ground terminals. It integrates eight transmit and eight receive paths on one die. It connects a digital modem or beamforming processor to eight antenna subarrays through external RF front ends.

Each path supports up to 800 MHz active channel, with narrow band operation also supported. Horizon allows digital channel selection within a 3.5 GHz IF window from 5.5 to 9.0 GHz, enabling channel changes without retuning the external RF local oscillator.

Horizon integrates the transmit and receive converters, channel-selection processing, high-speed digital interfaces, and shared clocking. Digital beamforming across subarrays runs in the external processor; analog beamforming within each subarray runs in the RF front end.

3.5 GHz

IF SPAN

8 + 8

Tx + Rx PATHS

800 MHzACTIVE CHANNEL (400
MHz SUPPORTED)**1**FIXED RF LO PER
APERTURE**5.5–9** GHz

IF WINDOW

CONTACT US FOR MORE PRODUCT DETAILS

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