

## Features

- 5G NR FR2-1 n260 supported
- One entity frequency Up/ Down conversion
- Built-in GPS function for self-calibration
- Excellent EVM performance
- Synchronization modes: GPS, Internal clock, External REF IN.



## UDC X - 2430 Radio Specification

| 28GHz Model          | Min | Typ.       | Max | Unit | Note       |
|----------------------|-----|------------|-----|------|------------|
| RF frequency range   | 37  | -          | 40  | GHz  |            |
| IF frequency range   | 3.3 | -          | 6.7 | GHz  |            |
| LO frequency range   | 8   | -          | 9   | GHz  |            |
| REF IN               | -   | Default 10 | -   | MHz  |            |
| REF Out              | -   | 10         | -   | MHz  | Adjustable |
| Up-Conversion Gain   | -   | 15         | -   | dB   |            |
| Down-Conversion Gain | -   | 0          | -   | dB   |            |
| RF Output P1dB       | -   | 7          | -   | dBm  |            |
| IF Output P1dB       | -   | 0          | -   | dBm  |            |

## UDC X - 2430 Absolute Maximum Rating

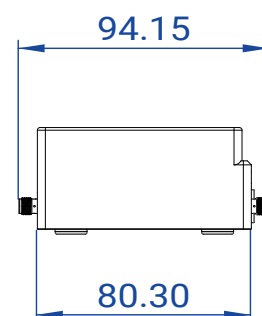
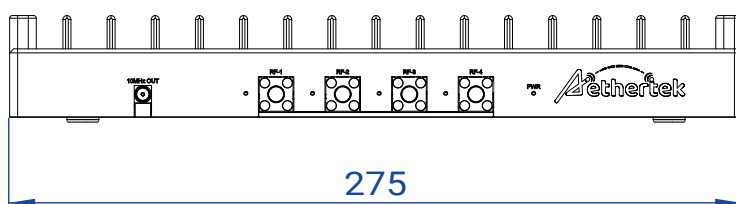
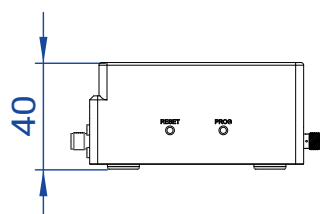
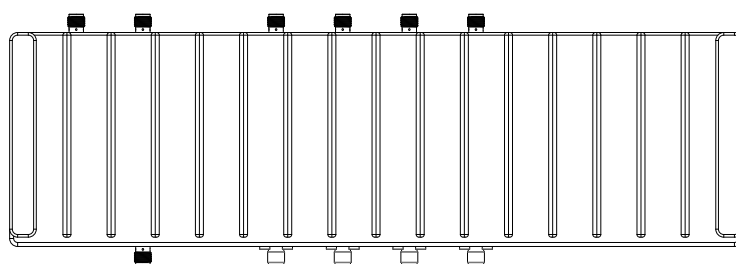
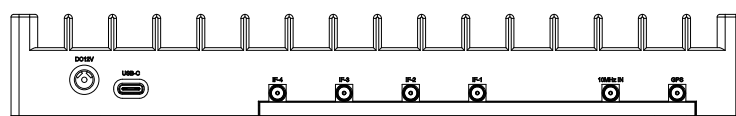
| Parameter       | Type | Min | Typ. | Max      | Unit | Note                                 |
|-----------------|------|-----|------|----------|------|--------------------------------------|
| RF Ports        | I/O  | -   | -    | See Note | dBm  | Max Input: 0dBm<br>Max Output: 10dBm |
| IF Ports        | I/O  | -   | -    | -20      | dBm  | [1]                                  |
| External REF IN | I    | -   | -    | 5        | dBm  |                                      |
| REF Out         | O    | -   | -    | 5        | dBm  |                                      |

[1] To ensure the signal quality and meet the 3GPP specification as TS38.141, the value is defined based on test condition 5G NR waveform TM3.1a (BW100MHz, PAPR 10dB@CCDF 0.01%).

## UDC X - 2430 Absolute Maximum Rating

| Parameterw            | Min | Typ. | Max | Unit |
|-----------------------|-----|------|-----|------|
| Power supply voltage  | -   | 12   | -   | V    |
| Power supply current  | -   | -    | 3   | A    |
| Operating Temperature | 0   | -    | 40  | °C   |
| Storage Temperature   | -40 | -    | 85  | °C   |

## Dimension



## Block Diagram

