

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 - 3740 Radio Specification

39GHz Model	Min	Typ.	Max	Unit	Note
RF frequency range	37	-	40	GHz	
IF frequency range	3.3	-	6.7	GHz	
LO frequency range	32	-	36	GHz	LO, Low side injection
REF IN	-	10	-	MHz	Adjustable
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 - 3740 Absolute Maximum Rating

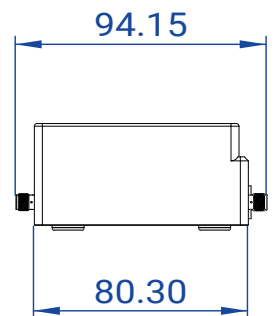
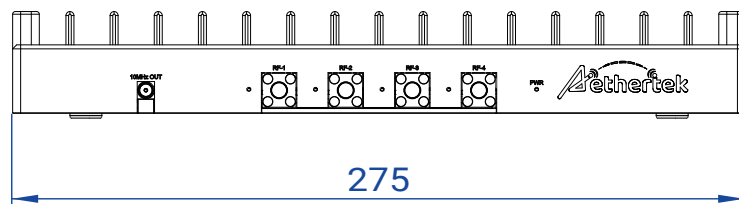
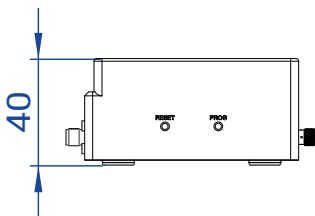
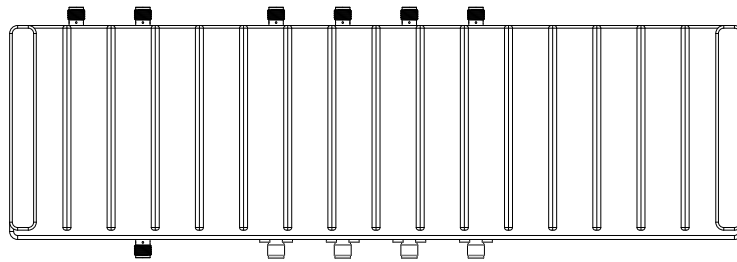
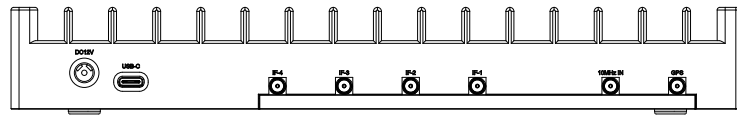
Parameter	Type	Min	Typ.	Max	Unit	Note
RF Ports	I/O	-	-	See Note	dBm	Max Input: 0dBm Max Output: 10dBm
IF Ports	I	-	-	-20	dBm	[1]
External REF IN	I	-	-	5	dBm	
REF Out	O	-	-	5	dBm	

[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 - 3740 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

