

ADAS

76GHz 3D Long Range Radar

Item	Product Target Performance	Comment / Condition
Configuration	8Tx by 16Rx MIMO, FCM	76.5GHz, 0.5GHz modulation bandwidth
Maximum Range	250m	RCS 10m ² , No Rain or Snow
FOV	0-50m : Az 112° , El 22° 50-100m : Az 90° , El 20° 100-150m : Az 60° , El 15° 150-250m : Az 30° , El 10°	RCS 10m ² , No Rain or Snow Alignment Margin ± 3.5° (May not need screw aiming)
Angle Resolution	0.25°	Theoretical number. Az, El
Angle Separation	Az 1.0° , El 1.0°	Separate 2 CRs (RCS 10m ²), Center, Stable Situation
# of Output Target	1,000	Output Data : Range, Az, El, Doppler and Power
Data Update Rate	50ms	Throughput and Latency target calculation speed. A0/A1 sample will be around 100-200ms.
I/F	Ethernet, CAN	1000baseT , CAN I/F will be applied from A1 sample



A1-sample image

Sample Plan:

A0-sample target ⇒2018/6
(DIM:200x130x55mm)

A1-sample target ⇒2018/11
(DIM:90x90x35mm)

