

Radar specifications	Value
RF output frequency	35.29 GHz
Peak power	2.1 kW
Duty cycle	5 % max.
Pulse widths (selectable)	3.3 μ s (50–13 000 ns)
Pulse compression ratio	1 : 10 (1–100)
Range gate spacing (resolution)	25 (50) m
Transmit polarization	Linear <i>H</i> or <i>V</i> polarization; Pulse-to-pulse polarization agility
Receiver polarization	Simultaneous linear co- and cross-polarization
Receiver noise figures	2.8 dB min
Sensitivity at 5.0 km	–45 dBZ
Transmitter and receiver losses	1.15 and 0.3 dB
IF output to digital receiver	90 MHz
Antenna diameter	1.2 m
Antenna beam width	0.5°
Antenna gain (includes OMT loss)	49 dB
First side lobe level	–19 dBi min
Cross-polarization isolation	–27 dB