

# S S Microelectronics Technology Pvt. Ltd.

## X-BAND DUAL POLARIZATION WEATHER RADAR

X-band weather radar is mainly used to obtain reflectivity factors, radial velocity, spectrum width and polarization parameters of cloud and rain targets within an effective range. It is a powerful tool for the analysis of medium-scale and small-scale weather system, warning of severe convection and formulate short-term weather forecasts. It can be used for the real-time monitoring and warning for medium-scale and small-scale storms, hails, strong wind shears, cyclones, tornadoes, high winds and other disastrous weather.

SPECIFICATIONS	
Operating frequency	X band
Detection rang	Vertical 160m~ 20km
	Horizontal 150m~150km
	Distance resolution 75, 150m
Transmitter system	Solid-stage transmitter
Detecting precision	Echo intensity $\leq 1\text{dB(RMS)}$
	Radio velocity $\leq 1\text{m/s(RMS)}$
Range of scanning	Position $0^\circ\sim 360^\circ$
	Pitching $-2^\circ\sim + 182^\circ$
Installation pattern	Shelter- in, fixed & vehicle- mounted