

	Active purifying technologies			Passive purifying technology	
	ESP	Negative ion	Ozone	HEPA	Activated carbon
Principle	High intensity electric field	Negatively charged oxygen ions attract airborne particles	Ozone reacts with strong odors and airborne chemicals	Particulate filters reduce airborne particles of sizes > 0.3 microns	Activated carbon filters
Advantage	Removes solid particles and liquid droplets	Inexpensive and no filters to replace	Effective at removing odors and clearing molds and mildew	Effective method to trap particulate pollutants	Efficient at reducing volatile organic compounds
Disadvantage	Cannot be used for gaseous pollutant control	Can cover a maximum distance of 2 m from the device	Not approved due to health risks	Does not remove chemicals, gases or odors High operation and maintenance cost	Low efficiency at removing allergens and airborne particles

Figure 1

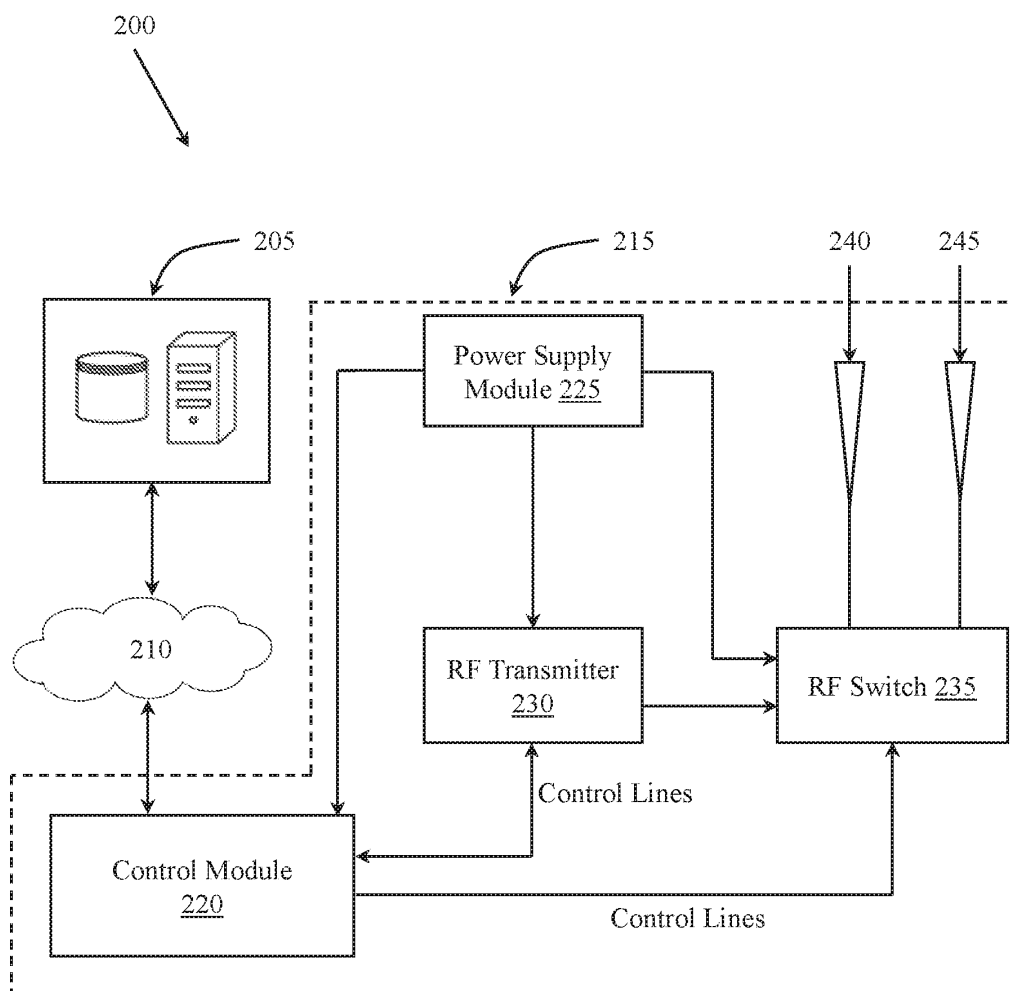


Figure 2

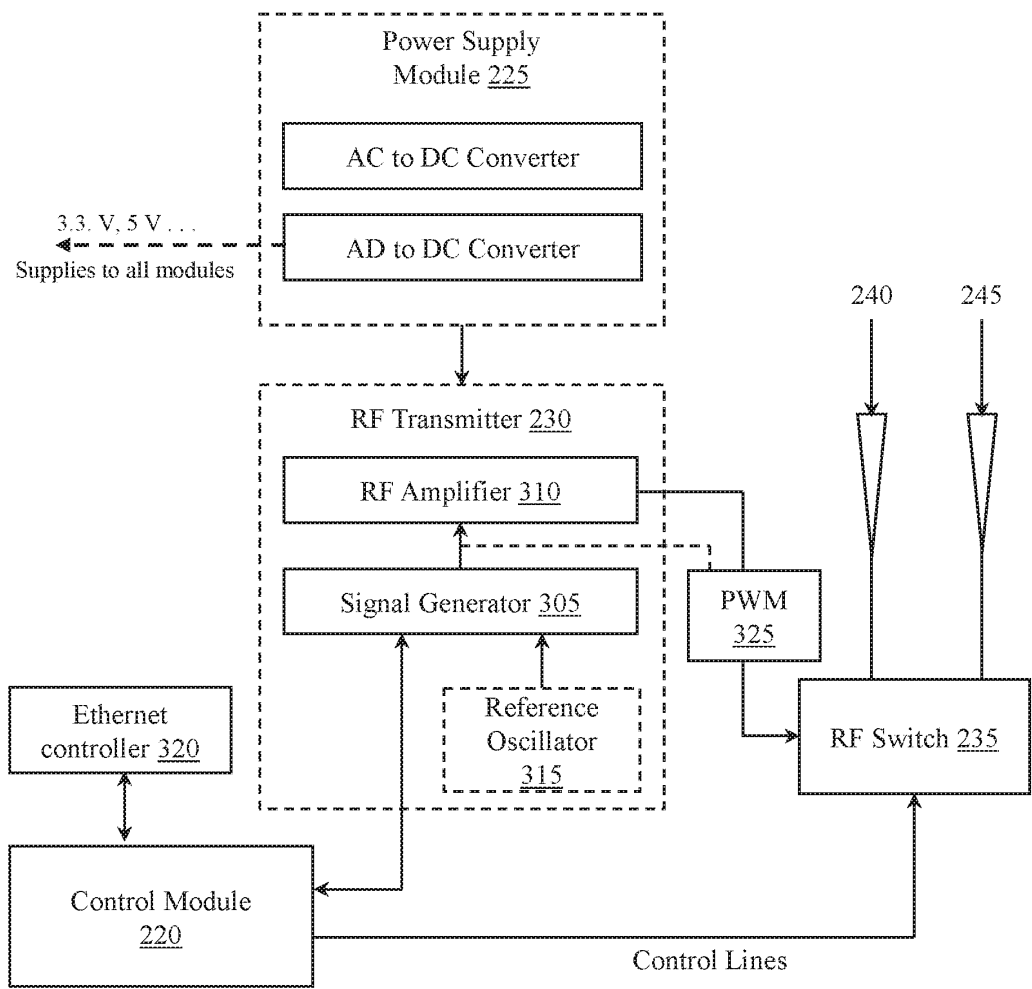


Figure 3