



# 110V AC Ceiling Fan User Document

2016-17 (Nov)

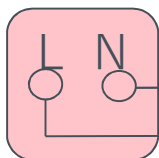
# Fan Functional Specifications



Specification	Value
Input Voltage Range	90-140V AC (Rated: 110V AC)
Input Power (Max.)	24W
Power Factor	0.95 @ 110V/300RPM
Rated Max RPM	300 RPM (+/- 5 RPM)
Speed Selection	Speed 1-5 through IR Remote
Topology	Sinusoidal PWM Commutation with Sensor
Protection	Surge, EMI, Block Rotor, On the fly, Over Current

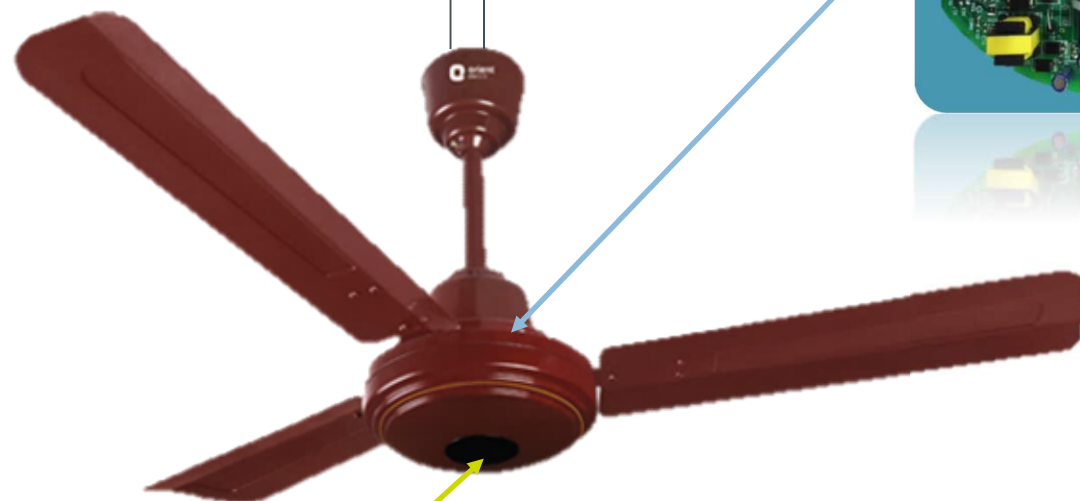
# Demo Connection Diagram

Power Socket



90-140V AC/60Hz

BLDC Motor  
Driver Card



IR Receiver



IR Remote for ON/OFF,  
Speed Selection

# IR Remote Functionality



ON/OFF Function

Speed Function

TIMER: NOT  
Implemented



Key 1: Lowest RPM  
Key 5: Max RPM

# Performance Result @ 110V AC



Key	RPM	Pin	lin	PF
1	110	4.0	0.05	0.66
2	168	7.6	0.09	0.84
3	212	12.3	0.122	0.90
4	255	15.9	0.155	0.91
5	297	22.5	0.223	0.96

