# Zalman ZM-F1 PLUS(SF) computer cooling system Computer case Fan 8 cm Black




**Brand :** Zalman

**Product code:** ZM-F1 PLUS(SF)

**Product name :** ZM-F1 PLUS(SF)

80mm Ultra Quiet Fan, 2000rpm, 20 - 23dBA, 12V

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**Long Life Bearing (EBR)**
Long Life Bearing applied, minimizing noise and inflow of the dust For longer life cycle.



**Shark fin blade design**
Optimized for maximum airflow, Shark`s Fin blade greatly reduces the turbulence caused by fan rotation, thus decreasing the noise and vibration while increasing the airflow.

**Minimized noise and vibration**
Minimized noise and vibration through lowest rpm. Suitable for silent system environment.

**Silicone pin provided**
Silicone pin absorbs the vibration between the fan and the case allowing a quiet work environment.
Zalman ZM-F1 PLUS(SF). Type: Fan, Fan diameter: 8 cm, Rotational speed (max): 2000 RPM. Voltage: 12 V. Width: 80 mm, Depth: 80 mm, Height: 25 mm. Product colour: Black

| Performance | |
|---|---|
| Suitable location * | Computer case |
| Type * | Fan |
| Fan diameter | 8 cm |
| Supported processor sockets | Not supported |
| Compatible processor series | Not supported |
| Rotational speed (max) | 2000 RPM |
| Noise level (low speed) | 20 dB |
| Noise level (high speed) | 23 dB |
| Mean time between failures (MTBF) | 50000 h |

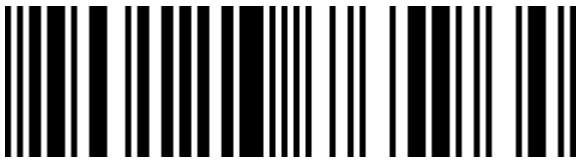
| Design | |
|---|---|
| Product colour * | Black |
| Material | Plastic |
| Number of fans | 1 fan(s) |
| **Power** | |
| Voltage | 12 V |
| **Weight & dimensions** | |
| Width | 80 mm |
| Depth | 80 mm |
| Height | 25 mm |
| Weight | 83 g |
| **Technical details** | |
| Bearing technology | Long Life Bearing |



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