



US 20230232569A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0232569 A1****He et al.**(43) **Pub. Date: Jul. 20, 2023**(54) **SYSTEM AND METHOD FOR A RADIO
MODULE ON PREMISE OF A COOLING FAN****Publication Classification**(71) Applicant: **Dell Products, LP**, Round Rock, TX
(US)(51) **Int. Cl.**
H05K 7/20 (2006.01)
G06F 1/20 (2006.01)(72) Inventors: **Qinghong He**, Austin, TX (US); **Travis
C. North**, Cedar Park, TX (US); **Pomin
Shih**, Beitou District (TW)(52) **U.S. Cl.**
CPC **H05K 7/20136** (2013.01); **G06F 1/20**
(2013.01); **H05K 7/2039** (2013.01);
H05K 7/20336 (2013.01)(73) Assignee: **Dell Products, LP**, Round Rock, TX
(US)(57) **ABSTRACT**(21) Appl. No.: **17/579,125**(22) Filed: **Jan. 19, 2022**

An information handling system with a cooling system may include a processor; a memory; a power management unit (PMU) operatively coupled to the processor; a cooling fan operatively coupled to the processor to draw air into and direct air out of a base chassis of the information handling system, the cooling fan including a fan housing; and a radio module operatively coupled to the fan housing to be cooled by conduction to the fan housing and operation of the fan via convective cooling.

