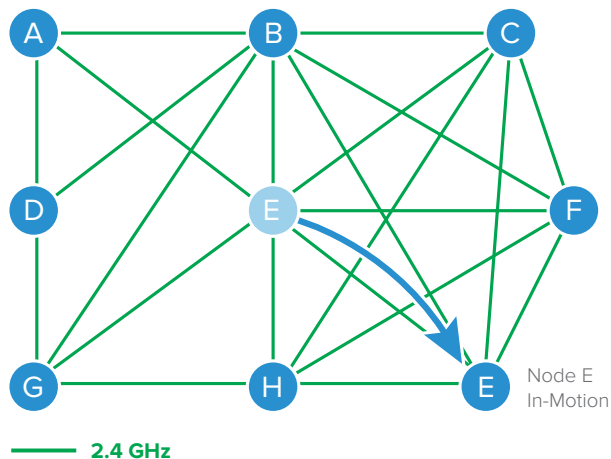




## InstaMesh®

InstaMesh is the advanced, patented<sup>1</sup> protocol developed by Rajant that directs the continuous and instantaneous forwarding of wireless and wired connections. It enables network mobility, robust fault tolerance, reliable throughput, and low latency with very low maintenance and administrative requirements. Because InstaMesh operates at Layer 2 and does not use a root node or LAN Controller, mobility and bandwidth are optimized. No matter how you configure your network, InstaMesh networking software always determines the most efficient pathway between any two points, even when those points are in motion.

This diagram shows how your Rajant mesh network can adapt to the changes caused by the movement of Node E. New links are established in real-time keeping the network available, intact and secure.



<sup>1</sup> U.S. Patent 8341289B2

Model	
JR3-52	JR3 with 2.4/5 GHz dual band transceiver (SISO)

Wireless	2.4 GHz	5 GHz
Antenna Connector	(1) Type N (male)	
Frequency <sup>2</sup>	2402 — 2482 MHz	U-NII-1: 5150 — 5250 MHz U-NII-2A: 5250 — 5350 MHz U-NII-2C: 5470 — 5725 MHz U-NII-3: 5725 — 5850 MHz
Modulation	DSSS, CCK, OFDM	OFDM
Max. Physical Layer Data Rate	150 Mbps (throughput varies)	150 Mbps (throughput varies)
Max. RF Transmit Power <sup>3</sup>	27 dBm ± 2 dB	27 dBm ± 2 dB
Receive Sensitivity	2.4 GHz: -97 dBm (@ 1 Mbps, 20 MHz channel bandwidth) to -70 dBm (@ MCS7, 40 MHz channel bandwidth) 5 GHz: -93 dBm (@ 6 Mbps, 20 MHz channel bandwidth) to -70 dBm (@ MCS7, 40 MHz channel bandwidth)	

<sup>2</sup> Channel, frequency and bandwidth options vary based upon regional and local regulations and certifications.

<sup>3</sup> RF transmit power is governed by local regulations and varies by frequency.

