

## Edge Trends

By 2025, more data will be created at the edge than in the core. This existing shift in data gravity increases the need for edge compute and connectivity, and a new generation of solutions to secure and manage the edge.

Icon	Section Title	Problem	Solution	Result	Companies	Approaches	Maturity	VC Investment	Quote	Source
	<b>Edge Security</b>	Conventional security solutions are ill-suited to protect edge devices due to insecure communications, inadequate discovery, and a new generation of available tools designed for this attack surface.	A suite of platforms and services designed to discover connected edge devices and provide advanced capabilities pertaining to threat protection and vulnerability remediation.	Reduced risk of direct data loss, potential of device interruption, use of breached edge devices to penetrate networks, systems, or applications.	<p>■ Incumbents ■ Entrants</p>	<p>■ Protection ■ Remediation ■ Discovery</p>	<p>Early Adopters</p>	<p>Strong</p>	<p><i>"74% of enterprise security professionals feel their current security controls and practices are not adequate for unmanaged and IoT devices."</i></p> <p>— Forrester Research</p>	
	<b>Edge Compute</b>	Mainstream computational products are unsuitable for the restricted space, power, cooling, and performance footprints required for edge computation.	Specialized small, low-power, low-heat, and high-performance computation platforms with onboard acceleration software managed by an edge framework.	A highly-performant, low-power edge platform enabling more functionality to deploy on the restricted footprint of edge devices.	<p>■ Incumbents ■ Entrants</p>	<p>■ Platforms ■ Acceleration ■ Framework</p>	<p>Early Adopters</p>	<p>Moderate</p>	<p><i>"A computer once beat me at chess, but it was no match for me at kickboxing."</i></p> <p>— Emo Phillips, Comedian</p>	
	<b>Edge Connectivity</b>	The diverse array of components in unique or distant locations with limited power, bandwidth, or space are difficult to connect and manage.	A multitude of mostly wireless technologies (e.g., cellular, Wi-Fi, Bluetooth, and low-power mesh) with specialized hardware and software platforms to discover, connect, monitor, and manage them.	Flexibility to deploy devices that provide niche solutions over extended distances/challenging locations with increased visibility, safety, efficiency, and productivity.	<p>■ Incumbents ■ Entrants</p>	<p>■ Gateway ■ Management ■ Networking</p>	<p>Early Adopters</p>	<p>Limited</p>	<p><i>"We have a deep need and desire to connect. Everything in the history of communication technology suggests we will take advantage of every opportunity to connect more richly and deeply. I see no evidence for a reversal of that trend."</i></p> <p>— Peter Morville</p>	

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