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## Why Out-of-Band (OOB)? & Why DFI's OOB?

Unexpected downtime disrupts operations and finances, halting production, delaying deliveries, and causing hidden costs like restart expenses, missed deadlines, supply chain issues, and fixed overheads. This highlights the need for proactive, reliable OOB solutions to minimize interruptions. However, many options are expensive due to high hardware and cloud costs. How can you find a cost-effective solution?

**Did you know that 90% of downtime begins with a simple reboot?**

Even more surprising, over 70% of devices recover after a reboot. So why waste time?

**Save the trip, Reduce downtime cost**

### DFI Market-leading Out-Of-Band (OOB) Solutions

	DFI OOB Solution	Intel	Other OOB Solutions
<b>Tech.</b>	cBMC (Compact BMC)	vPRO	N/A
<b>Price</b>	<ul style="list-style-type: none"> <li>Best Cost-Value <span style="color: red;">✔</span></li> </ul>	<ul style="list-style-type: none"> <li>Expensive</li> </ul>	<ul style="list-style-type: none"> <li>Cost of HW &amp; Cloud</li> </ul>
<b>Function</b>	<ul style="list-style-type: none"> <li>Designed for IPC Applications <span style="color: red;">✔</span></li> <li>Cover 70% of IPMI functions <span style="color: red;">✔</span></li> <li>Advanced remote BIOS Update</li> <li>Remote OS Recovery &amp; Updates During Shutdown</li> <li>Assign Boot Partition to Switch OS Before Reboot</li> </ul>	<ul style="list-style-type: none"> <li>Supports i5 and Higher Processors</li> </ul>	<ul style="list-style-type: none"> <li>Limited functions</li> </ul>

DFI's OOB solutions provide cost-effective functionality for industrial PCs, delivering up to 70% of server-grade BMC capabilities. They offer secure, independent remote access for quick actions like reboots and firmware updates, even during shutdown. By reducing downtime, on-site IT needs, and recovery costs, they enhance security, protect critical applications, and streamline maintenance to minimize disruptions and impacts.





Manage the hidden costs of downtime—lost revenue, productivity, and recovery expenses. Discover how DFI's cBMC OOB solutions for industrial PCs offer advanced, cost-efficient features to minimize disruptions and maximize efficiency.

Explore [this article](#) and [video](#) to learn more.



- Remote on/off device
- Remote Bios Update even when system shut down
- Remote Bios setup & UEFI Shell (serial over LAN)
- Remote HW monitoring & trouble shooting
- Remote Desktop (in-Band)
- OS Image Remote Recovery

## DFI Out-of-Band (OOB) Functions List

Type	M.2 Module	Carrier Board		BOX	On board
					
OOB Model Name	M2A-OOB	EXT-OOB		RM101-OOB	OOB
DFI OOB Features	OOB-Full	OOB-Full	OOB-Lite	OOB-Lite	OOB-Full
Open SSH Login	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote power on/off & reset control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote hardware monitor log (I2C for SMBus)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Recovery (Factory mode)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote BIOS setup & UEFI shell	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote BIOS update (SPI)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote BIOS update (USB)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote Recovery OS Image*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## DFI Out-of-Band (OOB) Supported Models List

OOB Model Name	M2A-OOB	EXT-OOB		RM101-OOB	OOB
DFI OOB Features	OOB-Full	OOB-Full	OOB-Lite	OOB-Lite	OOB-Full
<b>EATX</b>					
<b>ATX</b>	<ul style="list-style-type: none"> <li>✓ RPS630-R680E</li> <li>✓ ARS630-W880/Q870</li> </ul>		<ul style="list-style-type: none"> <li>✓ CMS630-W480E/Q470E</li> <li>✓ CMS631-Q470E/H420E</li> <li>✓ CMS632</li> <li>✓ W480E/Q470E</li> <li>✓ ADS630-R680E/Q670E</li> </ul>		
<b>microATX</b>		<ul style="list-style-type: none"> <li>✓ RPS310-R680E/Q670E</li> <li>✓ RPS330-Q670E/H610E</li> </ul>	<ul style="list-style-type: none"> <li>✓ CMS310-W480E/Q470E</li> <li>✓ CMS330-Q470E/H420E</li> <li>✓ CMS311-W480E/Q470E</li> <li>✓ ADS310-R680E/Q670E</li> </ul>		
<b>Mini-ITX</b>		<ul style="list-style-type: none"> <li>✓ RPS183-Q670E/H610E</li> <li>✓ RPS101/103-R680E/Q670E/H610E</li> <li>✓ HPT171</li> <li>✓ ARH171/173</li> </ul>			
<b>PICMG 1.3</b>	<ul style="list-style-type: none"> <li>✓ RPSPIC</li> </ul>				



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<b>3.5" SBC</b>					
<b>4" SBC</b>					<ul style="list-style-type: none"> <li>✓ ADN253 (Opt.)</li> <li>✓ MTH253</li> <li>✓ ASL253 (Opt.)</li> </ul>
<b>Ultra Compact Fanless PC</b>					<ul style="list-style-type: none"> <li>✓ EC700-ADN/EC710-ADN</li> <li>✓ EC700-ASL/EC710-ASL</li> </ul>
<b>Embedded Fanless PC</b>	<ul style="list-style-type: none"> <li>✓ EC600-RPS</li> <li>✓ EC622-RPS</li> <li>✓ EC633-RPS</li> </ul>				
<b>AI Inference/Training System</b>	<ul style="list-style-type: none"> <li>✓ X6-ORN</li> <li>✓ X6-MTH</li> <li>✓ X6-MTH-ORN</li> </ul>				
<b>Open Frame Panel PC</b>					<ul style="list-style-type: none"> <li>✓ KIT070P-ADN</li> <li>✓ KIT101P-ADN</li> <li>✓ KIT121P-ADN</li> </ul>