

## 96-port HPoE MCU



PD69000 is a ninety-six-port, mixed-signal, Power over Ethernet Microcontroller Unit. Used with the PD69012 and PD69008, it allows the detection of IEEE 802.3af-2003, IEEE802.3at-draft2.0 and pre-standard devices, ensuring safe power feeding and removal over Ethernet ports. It also supports 4-pairs IEEE802.3at devices consuming up to 59W. With full digital control via a serial communication interface and a minimum of external components, the MCU integrates in multi-port

1111111111	and highly populated Ethernet switches	i.
	Features	Benefits
IEEE 802.3af-2	2003 and IEEE802.3at-draft2.0	
<ul> <li>Compliant with standard and pre-standard IEEE 802.3af PD's and IEEE802.3at PD's</li> </ul>		<ul> <li>Freedom to power all PoE PD's including Cisco's inline power</li> </ul>
<ul> <li>96-ports standalone PoE control for IEEE802.3af and IEEE802.3at PD's</li> </ul>		<ul> <li>Highest integration on the market, enabling the lowest real-estate occupation</li> </ul>
<ul><li>2-event power classification with bypass option</li><li>AC disconnect</li></ul>		<ul> <li>Enables building IEEE802.3at-draft2.0-compliant solutions with no need for additional software</li> </ul>
<ul><li>DC discon</li><li>Supports F</li></ul>	nect with DC modulation	<ul> <li>Reliable and simple AC disconnect implementation</li> </ul>
- Supports r	KFC3021	<ul> <li>Supports low power devices</li> </ul>
		Enables integration in Managed Switches
Architecture		
■ 7-bit I <sup>2</sup> C ac	C or UART host interface bit I <sup>2</sup> C address selectability pto-coupler compatible communication lines	<ul> <li>Backwards compatible with all PD64008/PD64012G-based message based user interface</li> </ul>
		<ul><li>Up to 1536 ports on a switch</li></ul>
	Up to 96 ports operating autonomously Up to 768 ports operated on a single power budget	<ul><li>Can be used with PD69008 and PD69012</li></ul>
- Op to 700 ports operated on a single power t	porto oporation on a omigro portor bangor	<ul> <li>Without automatic power allocation to different line cards</li> </ul>
Technology		
	lustry integration	Minimum per port external components
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Temperature sense/monitoring

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