Intel® Media Switch IXE2426 10/100+Gigabit L2 Device

Product Description

The Intel® Media Switch IXE2426
10/100+Gigabit L2 Device facilitates the design of high port density, high-performance, and media-ready Fast Ethernet switching systems. A single-chip 10/100+Gigabit Ethernet switch device, the IXE2426 offers 24 10/100Mbps ports and four Gigabit ports, as well as integrated 10/100 and Gigabit Media Access Controllers (MACs).

The IXE2426 enables you to design systems that deliver high-bandwidth voice, video, and data applications at wire speed. These designs can handle content-rich networks through the IXE2426's extensive functionality, Quality of Service (QoS), and Layer 2 switching.

By combining the IXE2426 with other Intel® Media Switch Devices, you can design high port density switching systems for Ethernet networks. The Intel Media Switch family offers a comprehensive solution—including silicon, software, and reference platforms—for faster time-to-market.

Intel is a leading supplier of communications building blocks, adding value at many integration levels. Intel's continuous innovation and

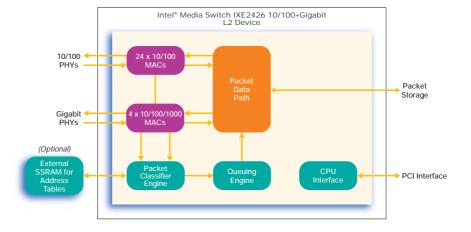


advancements in Ethernet connectivity and processing in the network help deliver a wide choice of solutions that accelerate development and increase revenue opportunity.

Applications

Key applications for the IXE2426 include:

- 24+4 Layer 2 workgroup and enterprise switch with advanced bandwidth management
- Cascadable high port count Layer 2 switch when using one or all Gigabit ports for cascading



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Features Benefits ■ Single-chip, 24-port 10/100 and 4-port Gigabit Layer 2 ■ High integration, compact footprint, and low power dissipation enable the design of high port density Ethernet switch systems at the lowest per-port cost ■ Wire-speed performance across all ports in switching modes
■ Delivers congestion-free performance through enterprise switches during peak load periods ■ Hardware assistance for several Layer 2 protocols such ■ Reduces complexity and cost of CPU subsystem, as STP, Multiple Spanning Trees (802.1s), Rapid which can be significant in stacks or chassis designs Reconfiguration (802.1w), Port-Based Network Access Control (802.1x), GVRP, and GMRP packets ■ Link aggregation in any combination of up to eight ports ■ Enables meshed configurations with redundant paths for fail-safe networks per group Advanced traffic prioritization, QoS, and bandwidth ■ Enables the convergence of voice, video, and data management capabilities traffic over Ethernet/IP networks ■ Fully compliant with VLAN implementation standards ■ Enables flat plug-and-play networks that are easy based on ports, tags, and addresses ■ Low-cost mode of operation ■ Enables a low-cost 24+4 Layer 2-only switch with no external address SSRAM ■ Provides support for up to 6K Layer 2 addresses and 64 802 10 VLANs without external SSRAM ■ Connection to other devices using standard interfaces Simplifies system design and provides flexibility when such as SERDES/GMII, SMII, PCI, I2C and SSRAM used with other devices Support for MAC-based and switch-based ■ Enables effective network management using counters with SNMP statistics-gathering on chip

Support Collateral/Tools

Item	Description	Order Number
Manual	■ Intel® Media Switch IXE2426 Device Developer's Manual	Contact local sales rep

Intel Access

Developer's Site	http://developer.intel.com	
Networking Components Home Page	http://developer.intel.com/design/network	
Other Intel Support: Intel Literature Center	http://developer.intel.com/design/litcentr (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.	
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST	



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