



Ethernet

Featured Products

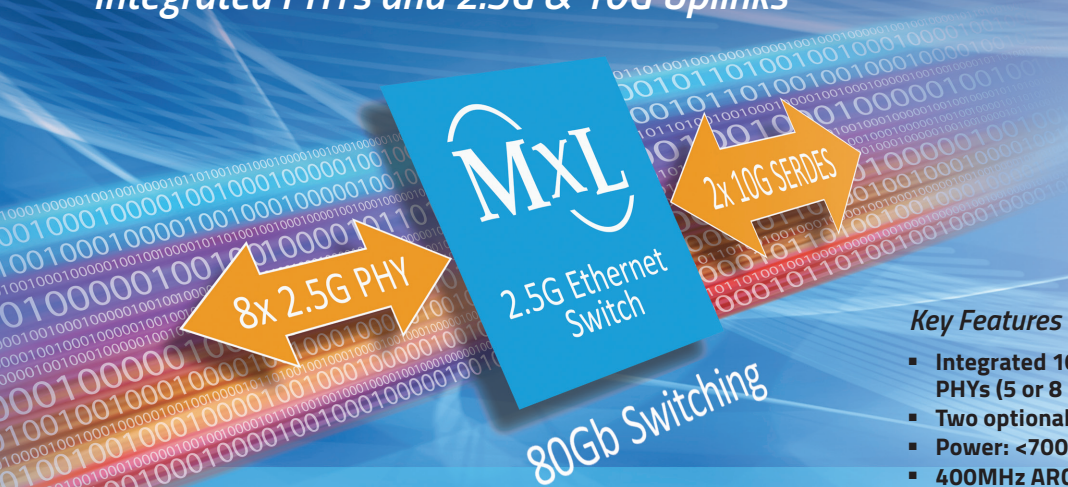
Ethernet Transceivers (PHYs)

Ethernet Switches

Featured Products

MxL86252, MxL86282

5- and 8-port 2.5G Ethernet Switches with Integrated PHYs and 2.5G & 10G Uplinks



Key Features

- Integrated 10/100/1000/2.5GBASE-T PHYs (5 or 8 ports)
- Two optional 10G uplink ports
- Power: <700mW per PHY
- 400MHz ARC CPU: Web smart
- Unblocking wire speed switching
- VLAN, QinQ, QoS, traffic shaping, ...
- BGA-277 12x12mm, 0.628mm pitch

Benefits

- Low-power consumption through high integration
- Power saving modes for short cables, through Energy Efficient Ethernet (EEE) and no-link detection
- Integrated processor enables web-smart switch applications

Applications

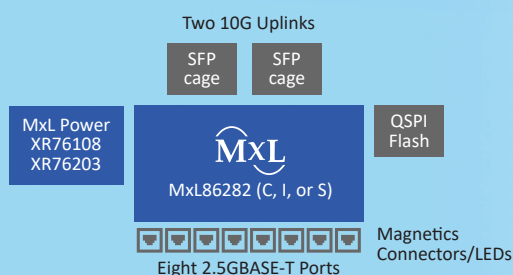
- Standalone five or eight-port 2.5G switches
- Eight-port SMB switches with two 10G uplinks
- Five-port SMB switches with 10G and 2.5G uplinks
- Unmanaged and web-smart switches
- External switches for gateway SoCs

Standards

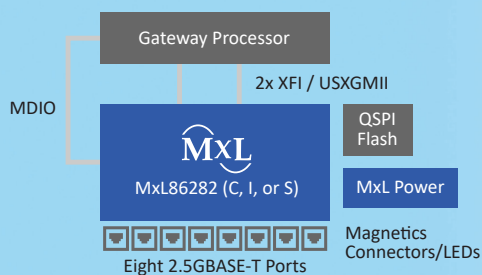
- IEEE Standard for Ethernet, IEEE 802.3™-2022



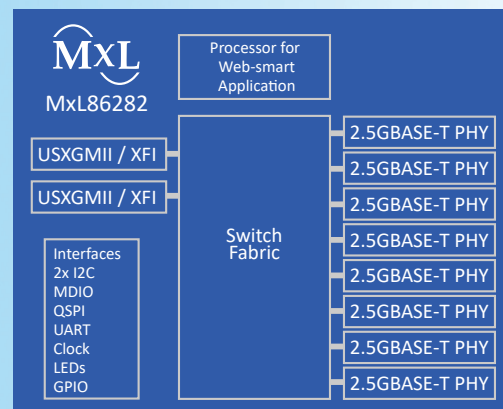
Switch without uplinks



Switch with uplinks



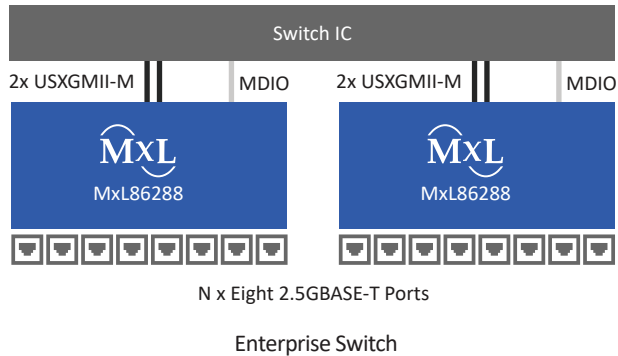
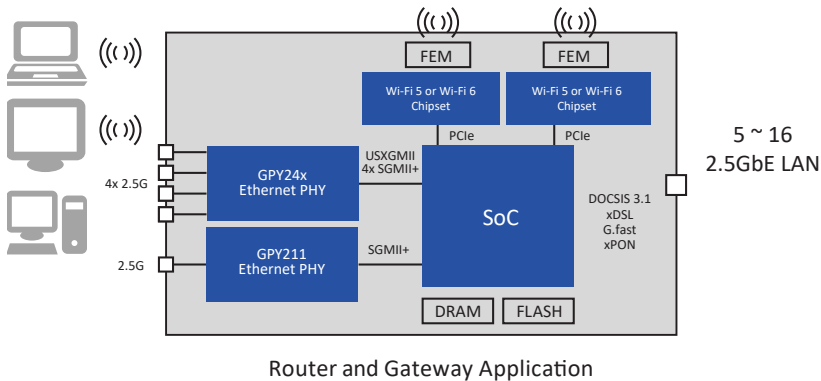
Switch attached to an SoC



MxL86282 Block Diagram

Ethernet Transceivers (PHYs)

Product	Ethernet Ports	Ethernet Bandwidth (Mbps)	Interfaces	MACsec	1588v2	SyncE	EEE	Thermal Protection	Min Temp (°C)	Max Temp (°C)	Package (X x Y mm)	Evaluation Board/s
MxL86288L	8	10, 100, 1000, 2500	2 x USXGMII-M		•	•	•	•	0	70	BGA-256 (13x13)	MxL86288L-EVK-1
MxL86288I	8	10, 100, 1000, 2500	2 x USXGMII-M		•	•	•	•	-40	85	BGA-256 (13x13)	
GPY245	4	10, 100, 1000, 2500	SGMII+, USXGMII-M	•	•	•	•	•	-40	85	BGA-236 (12x12)	GPY245-EVK-1, GPY245-EVK-2
GPY241	4	10, 100, 1000, 2500	SGMII+, USXGMII-M		•		•	•	0	70	BGA-236 (12x12)	
GPY215	1	10, 100, 1000, 2500	SGMII+	•	•	•	•	•	-40	85	QFN-56 (7x7)	GPY215-EVK-1, GPY215-EVK-3
GPY211	1	10, 100, 1000, 2500	SGMII+		•		•	•	0	70	QFN-56 (7x7)	GPY215-EVK-1
MxL86211C	1	10, 100, 1000, 2500	SGMII+		•		•	•	0	70	QFN-40 (5x5)	MxL86211C-EVK-1
MxL86211I	1	10, 100, 1000, 2500	SGMII+		•		•	•	-40	85	QFN-40 (5x5)	
GPY115	1	10, 100, 1000	SGMII	•	•	•	•	•	-40	85	QFN-56 (7x7)	GPY215-EVK-1
MxL86110C	1	10, 100, 1000	RGMII			•	•		0	70	QFN-40 (5x5)	MxL86110I-EVK-1
MxL86110I	1	10, 100, 1000	RGMII			•	•		-40	85	QFN-40 (5x5)	
MxL86111C	1	10, 100, 1000	RGMII, RGMII/1000BASE-X/100BASE-FX			•	•		0	70	QFN-48 (6x6)	
MxL86111I	1	10, 100, 1000	RGMII, RGMII/1000BASE-X/100BASE-FX			•	•		-40	85	QFN-48 (6x6)	
MxL86112C	1	10, 100, 1000	SGMII			•	•	•	0	70	QFN-40 (5x5)	MxL86112C-EVK-1
MxL86112I	1	10, 100, 1000	SGMII			•	•	•	-40	85	QFN-40 (5x5)	



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