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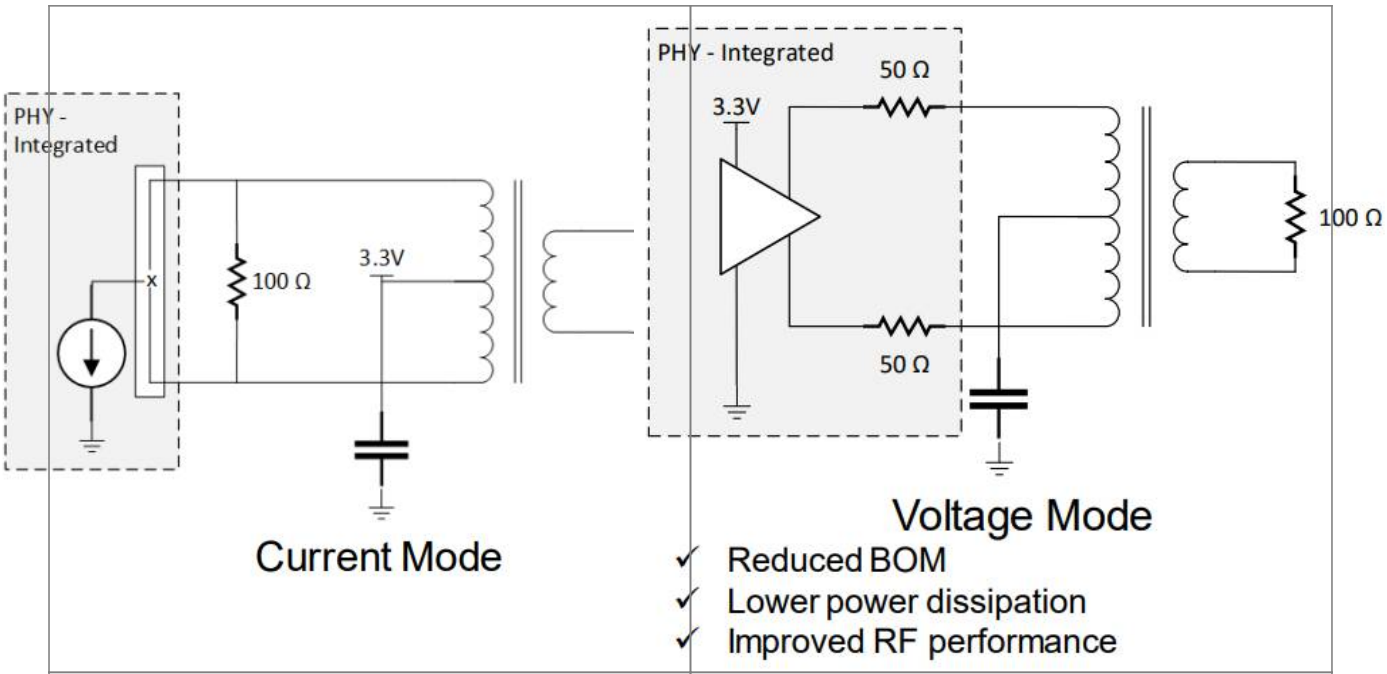
ETH PHY

Производители

Page	↓ Manufacturer	Country	Description	link	status	Tags
analog_devices	Analog Devices	USA	Analog Devices	https://www.analog.com	blocked	logic, mcu, eth-phy
atheros	Atheros	USA	Atheros→Qualcomm Atheros	https://www.qca.qualcomm.com	blocked	eth-phy
broadcom	Broadcom	USA?	Broadcom	https://www.broadcom.com/		eth-phy, eth-cntrl, eth-gearbox
dapu	Dapu	China	Dapu	https://www.dptel.com/		eth-phy, freq-ocxo, freq-xco, freq-xtal, freq-tcxo
davicom	Davicom	Taiwan	Davicom Semiconductor	https://www.davicom.com.tw		eth-phy
intel	Intel	USA?	Intel	https://www.intel.com/	blocked	eth-phy, eth-cntrl
marvell	Marvell	USA?	Marvell	https://www.marvell.com/		eth-phy, eth-cntrl
microchip	Microchip	USA?	Microchip	https://www.microchip.com/	blocked	eth-phy, eth-cntrl
microsemi	Microsemi	USA	Microsemi→Microchip	https://www.microsemi.com		eth-phy
motorcomm	Motorcomm	china	Motorcomm	https://www.motor-comm.com/		eth-phy, eth-cntrl
nxp	NXP	USA?	NXP	http://www.nxp.com	blocked	logic, mcu, eth-phy
realtek	Realtek	Taiwan?	Realtek	https://www.realtek.com/en/		eth-phy, eth-cntrl, wifi-cntrl, audio-codec
texas_instruments	Texas Instruments	USA	Texas Instruments	https://www.ti.com	blocked	eth-phy, logic, diode, diode-tvs

Voltage mode or Current mode Ethernet PHY

http://localhost/hash/6bf998c0c755a8c4e32568699476fbde/slyp788.pdf



10/100Mbit, 2 Channels, 3.3V center tab	10/100Mbit, 2 Channels
3.3V*40mA= 132mA * 2 channels = 264mA	3.3V*6mA= 19.8mA * 2 channels = 39.6mA
1000Mbit, 4 Channels, 3.3V center tab	1000Mbit, 4 Channels
3.3V*40mA= 132mA * 4 channels = 528mA	3.3V*6mA= 19.8mA * 4 channels = 79.2mA

Микросхемы

Chip	Manufacturer	Interface	Speed	Operating t	Octopart	DKO el	Datasheet	I/O levels	Comment
B50210E	Broadcom	RGMII	10/100/1000	-40; +85	Octopart	DKO	b50210e-ds06.pdf	1.8V HSTL, 2.5V 3.3V	
BCM54210E	Broadcom	RGMII, SGMII	10/100/1000	-40; +85	Octopart	DKO	bcm54210e-ds07.pdf bcm54210e-an102-rds.pdf	1.8V HSTL, 2.5V 3.3V	
BCM54811A2IMLG	Broadcom	GMII, RGMII, SGMII	10/100/1000		Octopart	DKO	bcm54811.pdf		
BCM5461S	Broadcom	GMII, RGMII, SGMII	10/100/1000		Octopart	DKO			
BCM54616S	Broadcom	RGMII, SGMII	10/100/1000		Octopart	DKO			
BCM54210S	Broadcom	RGMII, SGMII	10/100/1000	-40; +85	Octopart	DKO		2.5V 3.3V	
KSZ9021RNI	Microchip	RGMII	10/100	-40;+85	Octopart	DKO			
KSZ9031RNXIA	Microchip	MII, RGMII, GMII	10/100/1000	-40;+85	Octopart	DKO	ksz9031rnxia.pdf	1.8V 2.5V 3.3V	
KSZ9131RNXV	Microchip	GMII,MII,RGMII	10/100/1000	-40;+105	Octopart	DKO	ksz9131rnxi.pdf	1.8V 2.5V 3.3V	
LAN8820i	Microchip	GMII,MII,RGMII	10/100/1000	-40;+85	Octopart	DKO	lan8820.pdf	2.5V	
LAN8742AI	Microchip	RGMII	10/100	-40;+85	Octopart	DKO	lan8742ai.pdf	1.8V 2.5V 3.3V	
LAN8720AI	Microchip	RMII	10/100	-40;+85	Octopart	DKO	lan8720ai.pdf	1.8V 2.5V 3.3V	
LAN8700	Microchip	MII RMII	10/100	0;+70	Octopart	DKO	lan8700c_i_.pdf	1.8V 2.5V 3.3V	
LAN8700I	Microchip	MII RMII	10/100	-40;+85	Octopart	DKO	lan8700c_i_.pdf	1.8V 2.5V 3.3V	
ADIN1200	Analog Devices	MII, RMII, RGMII	10/100	-40;+105	Octopart	DKO	adin1200.pdf	1.8V 2.5V 3.3V	
ADIN1300	Analog Devices	MII, RMII, RGMII	10/100/1000	-40;+105	Octopart	DKO	adin1300.pdf	1.8V 2.5V 3.3V	
AR8031-AL1B	Atheros	RGMII, SGMII	10/100/1000	-40;+85	Octopart	DKO	ar8031.pdf	1.5V 1.8V 2.5V 3.3V	

Chip	Manufacturer	Interface	Speed	Operating t	Octopart	DKO el	Datasheet	I/O levels	Comment
AR8033-AL1B	Atheros	RGMII	10/100/1000	-40;+85	Octopart	DKO			
AR8035-AL1B	Atheros	RGMII	10/100/1000	-40;+85	Octopart	DKO			
VSC8501XML-03	Microsemi	RGMII	10/100/1000	-40;+125	Octopart	DKO	vsc8501xml-03.pdf		
VSC8531XMW-02	Microsemi	RGMII	10/100/1000	-40;+125	Octopart	DKO	vsc8531-02.pdf	1.5V 1.8V 2.5V 3.3V	
VSC8541XMV-05	Microsemi	RGMII	10/100/1000	-40;+125	Octopart	DKO	vsc8541xmv-05.pdf	1.5V 1.8V 2.5V 3.3V	
DP83620	TI	RMII, MII	10/100	-40;+85	Octopart	DKO	dp83620.pdf	2.5V 3.3V	
DP83822	TI	RGMII, RMII, MII	10/100	-40;+125	Octopart	DKO			
DP83867IR	TI	RGMII, GMII, MII	10/100/1000	-40;+85	Octopart	DKO			
88E1510-A0-NNB2I	Marvell	RGMII, SGMII	10/100/1000	-40;+85	Octopart	DKO	88e151x	2.5V 3.3V	
88E1518	Marvell	RGMII, SGMII	10/100/1000	0;+70	Octopart	DKO	88e151x	1.8V	
88E1512-A0-NNP2I	Marvell	RGMII, SGMII	10/100/1000	-40;+85	Octopart	DKO	88e151x	1.8V 2.5V 3.3V	
PEF7072	Rochester Electronics / Latniq / Intel	RGMII, SGMII	10/100/1000		Octopart	DKO			У Вани остались не самые приятные впечатления от работы с этим модулем
TJA1100	NXP		1000		Octopart	DKO			
TJA1101	NXP		1000		Octopart	DKO			
RTL8211FI / RTL8211FDI	Realtek	RGMII	10/100/1000	-40;+85	Octopart	DKO	rtl8211fi.pdf		
DM9119INP	Davicom	GMII/RGMII	10/100/1000	-40;+85	Octopart	DKO	dm9119inp.pdf	2.5V 3.3V	
DM9119INX	Davicom	GMII/RGMII	10/100/1000	-40;+85	Octopart	DKO	pdf	2.5V 3.3V	
DAP8211R	Dapu	RGMII	10/100/1000	0;+70	eth-phy	eth-phy	https://www.dptel.hk.cn/Products/ProductLevel3/1938		
DAP8211RI	Dapu	RGMII	10/100/1000	-40;+85?					

WiFi

AP6212	Octopart	DKO	ap6212.pdf

I219V I219LM

Chip	Manufacturer	Interface	Speed	Operating t	Octopart	DKO el	Datasheet	I/O levels	Comment
WGI219V	Intel	PCIe like	10/100/1000	0...+85	Octopart	DKO		3.3V	
WGI219LM	Intel	PCIe like	10/100/1000	0...+85	Octopart	DKO		3.3V	

Features	I219V	I219LM
10BASE-T (IEEE 802.3 specification conformance)	✓	✓
100BASE-TX (IEEE 802.3 specification conformance)	✓	✓
1000BASE-T (IEEE 802.3 specification conformance)	✓	✓
Auto-Negotiation (IEEE 802.3u)	✓	✓
Intel® vPro™ [2] technology		✓
Intel® Stable Image Platform Program (SIPP)		✓
Intel® Standard Manageablity		✓
Power optimizer platform low-power management systems	✓	✓
Energy Efficient Ethernet[1] (IEEE 802.3az)	✓	✓
TCP/UDP checksum and segmentation offload (IPv4 and IPv6)	✓	✓
Receive Side Scaling	✓	✓
Dual Tx and Rx queues	✓	✓
Jumbo Frames (up to 9 KB)	✓	✓
Teaming	✓	✓
Integrated Auto Connect Battery Saver (ACBS) battery savings	✓	✓
Timing and Synchronization (802.1as / 1588)	✓	✓
Integrated Switched Voltage Regulator (iSVR)	✓	✓
Shared Flash with system BIOS	✓	✓
Wake from Deep Sx	✓	✓
Server operating system support		✓
Network proxy/ARP support	✓	✓
32 wake filter support	✓	✓