


MMP PHY/POE PRODUCT SELECTOR GUIDE

Mass Market PHY/PoE Solutions

	BCM5221	BCM5241	BCM52681E	BCM5248U	BCM5248X	B50212E	BCM54214E	BCM54216E	BCM54811	BCM54811S	BCM54880	BCM54881
FE/GPHY	MII RMII	MII	S3MII	S3MII SMII	S3MII SMII	RGMII	GMII RGMII	GMII RGMII	RGMII	RGMII SGMII	SGMII	S3MII
Media Interface												
Port speed	FE	FE	FE	FE	FE	GPHY	GPHY	GPHY	GPHY	GPHY	GE	FE
Copper ports	1	1	8	8	8	1	1	1	1	1	8	8
Fiber ports	1	1	8	0	8	0	0	0	0	1	-	-
MAC Interface												
GMII	0	0	0	0	0	0	1	1	0	0	-	-
QSGMII	0	0	0	0	0	0	0	0	-	-	-	-
SGMII	0	0	0	0	0	0	0	0	0	1	8	-
RGMII	0	0	0	0	0	1	1	1	1	1	-	-
MII	1	1	0	0	0	0	1	1	1	1	-	-
RMII	1	0	0	0	0	0	0	0	-	-	-	-
S3MII	-	-	8	8	8	0	0	0	-	-	-	8
SMII	-	-	0	8	8	0	0	0	-	-	-	-
XAUI	-	-	0	0	0	0	0	0	-	-	-	-
XFI	-	-	0	0	0	0	0	0	-	-	-	-
Features												
Process	220 nm	180 nm	65 nm	180 nm	180 nm	40 nm	40 nm	40 nm	65 nm	65 nm	65 nm	65 nm
Package size (in mm)	12 × 12, 8 × 8, 7 × 7	5 × 5	21 × 21	23 × 17	17 × 17	7 × 7	10 × 10	9 × 9	7 × 7	9 × 9	21 × 21	21 × 21
Package type	64 LQFP, 64 FBGA, 48 QFN	32 MLP	400 FBGA	128 MQFP	256 FBGA	48 QFN	68 QFN	68 QFN	48 MLP	100 BGA	400 BGA	400 BGA
Power rails	2.5V/3.3V	2.5V/3.3V	1.3V/3.3V	1.8V/3.3V	1.8V/3.3V	1.0V/3.3V	1.0V/3.3V	1.0V/3.3V	1.2V/3.3V	1.2V/3.3V	1.2V/3.3V	1.2V/3.3V
I-Temp	√	√	√	√	√	√	√	√	√	√	√	√
On-chip Regulator	-	-	-	-	-	√	√	√	√	√	√	√
BroadR-Reach	-	-	-	-	-	-	-	-	√	√	√	√
Synch Ethernet	-	-	√	-	-	-	√	√	√	√	√	√
IEEE 1588v2	-	-	-	-	-	-	-	-	-	-	-	-
												
Y.1731 DM	-	-	-	-	-	-	√	-	-	-	-	-
Energy Efficient Ethernet (EEE)	-	-		-	-	-					-	-
AutogrEEEEn®(+)	-	-	-	-	-	-	√	√	-	-	-	-

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