

EthSerialBrickR2 BOM

Quantity	Designator	PartType	DescSheet	VendorPartNo	Vendor	Reference	Cost/ea	Description	Manufacturer	ManufPartNo	Footprint
1	C1	0.33uF	50V	399-1659-1-ND	Digi-Key	T041, 773	0.30	Capacitor	Kemet	T491B334M050AS	3528POL
1	C2	10uF	50V	106K050CS4	Future		13.92	Capacitor	ITW Paktron	106K050CS4	CAPSTICK-CS4-5
1	C3	1uF	25V	399-1624-1-ND	Digi-Key	T041, 773	0.19	Capacitor	Kemet	T491A105K025AS	3216POL
2	C4, C14	100uF	6.3V	399-3195-1-ND	Digi-Key	T041, 772	0.93	Capacitor	Kemet	T491B107M006AS	3528POL
3	C5, C19, C20	100pF, 100pF, 2kV	2kV	PCC2092CT-ND	Digi-Key	T041, 813	0.99	Capacitor	Panasonic	ECK-T3D101KB	ECK
2	C6, C7	4.7uF	10V, cer	PCC2295CT-ND	Digi-Key	T041, 822	0.513	Capacitor	Panasonic	ECJ-3YB1A475K	1206
11	C8, C9, C10, C11, C12, C17, C18,	0.1uF	16V, cer	PCC1870CT-ND	Digi-Key	T041, 822	0.183	Capacitor	Panasonic	ECJ-3VB1C104K	1206
1	C13	10uF	10V	399-1563-1-ND	Digi-Key	T041, 772	0.20	Capacitor	Panasonic	T491A106K010AS	3216POL
2	C15, C16	47uF	25V, tant	399-3210-1-ND	Digi-Key	T041, 773	1.16	Capacitor	Kemet	T491D476M025AS	7343pol
1	C21	1.0uF	10V, ceramic	399-1254-1-ND	Digi-Key	T033, 785	0.33	Capacitor	Kemet	C1206C105K4RACTU	1206
1	D1	S1G-13	1A, 400V	S1GDICT-ND	Digi-Key	T033, 578	0.288	Diode	Diodes Inc	S1G-13	SMA
1	D2	3.3V Power	Ultra Blue	67-1668-1-ND	Digi-Key	T032, 1138	3.13	LED	Lumex	SML-LX15USBC-TR	SOT-23
13	J1, J2, J3, J3F, J6, J6F, J7, J14, J15, J16, J17, J18, J19	B1Pos, B2Pos, B3Pos, Batt1Neg,	FastCat CTD, PSA-916 OA		Subconn			Connector, Impulse RMG Connec	Impulse	RMG-4-FS, RMG-6-FS	LPIL-4-SOLDERPAI
1	J13	EthPow		S1051-36-ND	Digi-Key	T041, 93	2.62	Connector	Sullins	PZC36SAEN	SIP3
1	R1	240	1%	311-240FCT-ND	Digi-Key	T041, 861	0.088	Resistor	Yageo	9C12063A2400FKHFT	1206
2	R2, R6	4.7K		311-4.70KFCT-ND	Digi-Key	T041, 861	0.088	Resistor	Yageo	9C12063A4701FKHFT	1206
1	R3	715	1%	311-715FCT-ND	Digi-Key	T041, 861	0.088	Resistor	Yageo	9C12063A7150FKHFT	1206
1	R4	510		311-510FCT-ND	Digi-Key	T041, 861	0.088	Resistor	Yageo	9C12063A5100FKHFT	1206
1	R5	10.0K		311-10.0KFCT-ND	Digi-Key	T041, 861	0.088	Resistor	Yageo	9C12063A1002FKHFT	1206
4	TP1, TP2, TP3, TP4	Bus5V, BusPos, Iso3.3V, Iso12V	Red	5000K-ND	Digi-Key	T041, 1082	0.023	Pad Pin for testpoints	Keystone	5000	TP-PAD-35
2	TP5, TP6	BusGnd, IsoGnd	Black	5001K-ND	Digi-Key	T041, 1082	0.023	Pad Pin for testpoints	Keystone	5001	TP-PAD-35
4	TP7, TP8, TP9, TP10	En, IsoEn, IsoTrig, Trig	White	5002K-ND	Digi-Key	T041, 1082	0.023	Pad Pin for testpoints	Keystone	5002	TP-PAD-35
1	U1	LM317EMP	1A	LM317EMPCT-ND	Digi-Key	T041, 457	1.13	Regulator	National Semiconductor	LM317EMP	SOT-223
1	U2	PT78HT233H	3.3Vout, 2.0A, 9-15Vin	PT78HT233H-ND	Digi-Key	T041, 1170	16.20	Power Trends Switching Reg	TI Power Trends	PT78HT233H	PT78ST-HORIZ
1	U3	PT4143A	18-40Vin, 12Vout, 1.6Aout	PT4143-ND	Digi-Key	T041, 1169	46.23	TI Isol DC->DC Converter	TI Power Trends	PT4143A	TI-EGD
2	U4, U5	ADUM1100AR		ADUM1100AR	Arrow Electronics		4.19	Digital Isolator	Analog Devices	ADUM1100AR	SO-G8/D5
2	U6, U7	XPort-FastCat, XPort-PSA916		XPort	Mouser		50.00	Serial to Ethernet Converter	Lantronix	XPort	XPORT
1	U8	MAX3232		MAX3232CSE-ND	Digi-Key	T041, 507	4.19	MAX232 Communications Chip	Maxim	MAX3232CSE	SOIC-16-0.15W