



[UART Module]

Model No	IC	Frequency Hz	Power dBm	Distance km	Packing	Antenna	WOR	Feature
E30-T10S2	SI4460	433M	10	0.8	SMD	IPEX/Stamp	Y	Low power consumption
E30-TTL-10	SI4460	433M	10	0.8	DIP	SMA-K	Y	Low power consumption
E30-T100S2	SI4438	433M	20	2.0	SMD	IPEX/Stamp	Y	FEC
E30-TTL-100	SI4438	433M	20	2.0	DIP	SMA-K	Y	FEC
E31-T50S2	AX5043	433M	17	2.0	SMD	IPEX/Stamp	Y	Narrow-band
E31-TTL-50	AX5043	433M	17	2.1	DIP	SMA-K	Y	Narrow-band
E31-TTL-500	AX5043	433M	27	4.0	DIP	SMA-K	Y	Narrow-band
E31-TTL-1W	AX5043	433M	30	6.0	DIP	SMA-K	Y	Narrow-band
E31-TTL-2W	AX5043	433M	33	8.0	DIP	SMA-K	Y	Narrow-band
E32-TTL-100S1	SX1278	433M	20	2.8	SMD	Stamp hole	Y	LoRa spread spectrum
E32-T100S2	SX1278	433M	20	3.0	SMD	IPEX/Stamp	Y	LoRa spread spectrum
E32-TTL-100	SX1278	433M	20	3.0	DIP	SMA-K	Y	LoRa spread spectrum
E32-TTL-500	SX1278	433M	27	5.0	DIP	SMA-K	Y	LoRa spread spectrum
E32-TTL-1W	SX1278	433M	30	8.0	DIP	SMA-K	Y	LoRa spread spectrum
E33-TTL-20	SX1212	433M	13	0.8	DIP	SMA-K	Y	Low receiving current
E34-TTL-100	nRF24L01P	2.4G	20	2.5	DIP	SMA-K	N	Frequency hopping
E35-T100S2	SI4438	490M	20	2.5	SMD	IPEX/Stamp	Y	FEC
E35-TTL-100	SI4438	490M	20	2.5	DIP	SMA-K	Y	FEC
E36-T100S2	SI4463	915M	20	2.5	SMD	IPEX/Stamp	Y	FEC
E36-TTL-100	SI4463	915M	20	2.5	DIP	SMA-K	Y	FEC
E37-TTL-50	AX5043	490M	17	2.0	DIP	SMA-K	Y	Narrow band
E39-TTL-100	nRF24L01P	2.4G	20	2.0	DIP	SMA-K	N	Full-duplex
E40-T20S2	-	433M	13	1.0	SMD	IPEX/Stamp	N	Low power consumption
E41-T10S2	-	433M	10	1.0	SMD	IPEX/Stamp	Y	High cost performance
E41-T100S2	-	433M	20	2.0	SMD	IPEX/Stamp	Y	High cost performance
E44-TTL-100	SX1276	915M	20	3.0	DIP	SMA-K	Y	LoRa spread spectrum
E44-TTL-1W	SX1276	915M	30	8.0	DIP	SMA-K	Y	LoRa spread spectrum
E45-TTL-100	SX1276	868M	20	3.0	DIP	SMA-K	Y	LoRa spread spectrum
E45-TTL-1W	SX1276	868M	30	8.0	DIP	SMA-K	Y	LoRa spread spectrum
E46-TTL-1W	SX1276	170M	30	8.0	DIP	SMA-K	Y	LoRa spread spectrum
E50-TTL-100	SI4463	170M	20	2.0	DIP	SMA-K	Y	Strong penetration
E50-TTL-500	SI4463	170M	27	5.0	DIP	SMA-K	Y	Strong penetration
E51-TTL-50	AX5043	230M	17	2.0	DIP	SMA-K	Y	Strong penetration
E51-TTL-500	AX5043	230M	27	5.0	DIP	SMA-K	Y	Strong penetration

E52-TTL-50	AX5043	315M	17	2.0	DIP	SMA-K	Y	FEC
E53-T100S2	SI4463	868M	20	2.5	SMD	IPEX/Stamp	Y	FEC
E53-TTL-100	SI4463	868M	20	2.5	DIP	SMA-K	Y	FEC
E54-T100S2	SI4463	780M	20	2.5	SMD	IPEX/Stamp	Y	FEC
E61-TTL-50	-	433M	30	1.0	DIP	SMA-K	N	Modbus
E61-TTL-1W	-	433M	20	2.5	DIP	SMA-K	N	Modbus
E62-TTL-100	-	433M	20	1.0	DIP	SMA-K	N	Full-duplex
E62-TTL-1W		433M	30	3.0	DIP	SMA-K	N	Full-duplex
E64-T100S2	-	433M	1	1.5	SMD	IPEX/Stamp	Y	Star network

[SPI Module]

Model No	Interface	RF IC	Freq Hz	Power dBm	Distance km	Size mm	Packing	Antenna
E01-ML01S	SPI	nRF24L01P	2.4G	0	0.1	12*19	SMD	PCB
E01-ML01D	SPI	nRF24L01P	2.4G	0	0.1	12.6*22.6	DIP	PCB
E01-ML01IPX	SPI	nRF24L01P	2.4G	0	0.2	12*19	SMD	IPX
E01-ML01DP4	SPI	nRF24L01P	2.4G	20	1.8	15*27	DIP	PCB
E01-ML01DP5	SPI	nRF24L01P	2.4G	20	2.5	18*33.4	DIP	SMA-K
E01-ML01SP2	SPI	nRF24L01P	2.4G	20	1.8	12.8*25	SMD	PCB/IPX
E01-ML01SP4	SPI	nRF24L01P	2.4G	20	2.0	14.5*18	SMD	IPX
E05-MLE124A	IO	nRF24LE1	2.4G	0	0.1	16.7*27.3	DIP	PCB
E05-MLE124AP2	IO	nRF24LE1	2.4G	10	1.0	16.7*30.8	DIP	SMA-K
E05-MLE132A	IO	nRF24LE1	2.4G	0	0.1	17.8*21.5	DIP	PCB
E05-MLE132AP2	IO	nRF24LE1	2.4G	20	1.0	17.8*30.6	DIP	PCB/IPX
E07-M1101S	SPI	CC1101	433M	10	0.4	13*19	SMD	Stamp
E07-M1101D-TH	SPI	CC1101	433M	10	0.5	15*30	DIP	Spring
E07-M1101D-SMA	SPI	CC1101	433M	10	0.6	16.6*24	DIP	SMA-K
E07—868MS10	SPI	CC1101	868M	10	1.0	13*19	SMD	Stamp
E07—915MS10	SPI	CC1101	915M	10	1.2	13*19	SMD	Stamp
E10-433MD-SMA	SPI	SI4463	433M	20	2.0	16.6*24	DIP	SMA-K
E10-433MD-TH	SPI	SI4463	433M	20	1.8	16.6*24	DIP	Spring
E10-433MS	SPI	SI4463	433M	20	1.8	14.5*18	SMD	Stamp
E10-433MS1W	SPI	SI4463	433M	30	6.0	14.5*18	SMD	Stamp
E10-433MD3	SPI	SI4438	433M	20	1.9	18.1*22.1	SMD	IPX
E10-868MS20	SPI	SI4463	868M	20	2.5	20*15	SMD	Stamp
E10-915MS20	SPI	SI4463	915M	20	2.5	20*15	SMD	Stamp
E11-MLU1	USB	nRF24LU1	2.4G	0	0.1	15.8*48.4	USB	PCB
E11-MLU1PA	USB	nRF24LU1	2.4G	20	1.0	15*53.3	USB	PCB
E18-MS1-PCB	IO	CC2530	2.4G	4	0.2	23*14.1	SMD	PCB
E18-MS1-IPX	IO	CC2530	2.4G	4	0.24	20.8*14.1	SMD	IPX
E18-MS1PA1-PCB	IO	CC2530	2.4G	20	0.8	16*27	SMD	PCB
E18-MS1PA1-IPX	IO	CC2530	2.4G	20	1.0	22.5*16	SMD	IPX
E19-433MS100	SPI	SX1278	433M	20	5.0	17.6*25.2	SMD	Stamp

E19-433MS1W	SPI	SX1278	433M	30	10.0	25*37	SMD	Stamp
E19-868MS100	SPI	SX1278	433M	20	5.0	17.6*25.2	SMD	Stamp
E19-969MS100	SPI	SX1278	433M	20	5.0	17.6*25.2	SMD	Stamp
E23-433MS20	SPI	SX1212	433M	13	0.8	22.4*16	SMD	Stamp

[DTU]

Model No	Interface	Freq Hz	Power dBm	Distance km	Air data rate bps	Feature
E30-DTU-100	RS232/RS485	433M	20	2.0	1k~25k	FEC
E3A-DTU-50	RS232/RS485	433M	17	2.0	1.2k~70k	Narrow-band transmission
E3A-DTU-500	RS232/RS485	433M	27	4.0	1.2k~70k	Narrowband transmission
E3A-DTU-1W	RS232/RS485	433M	30	6.0	1.2k~70k	Narrowband transmission
E32-DTU-100	RS232/RS485	433M	20	3.0	0.3k~19.2k	LoRa spread spectrum
E32-DTU-500	RS232/RS485	433M	27	5.0	0.3k~19.2k	LoRa spread spectrum
E32-DTU-1W	RS232/RS485	433M	30	8.0	0.3k~19.2k	LoRa spread spectrum
E34-DTU-100	RS232/RS485	2.4G	20	2.1	250k~2M	Frequency hopping
E35-DTU-100	RS232/RS485	490M	20	2.5	1k~25k	FEC
E39-DTU-100	RS232/RS485	2.4G	20	2.0	250k~2M	Full-Duplex
E44-DTU-100	RS232/RS485	915M	20	3.0	0.3k~19.2k	LoRa spread spectrum
E45-DTU-100	RS232/RS485	868M	20	3.0	0.3k~19.2k	LoRa spread spectrum
E51-DTU-50	RS232/RS485	230M	17	2.0	1.2k~70k	Strong penetration ability
E51-DTU-500	RS232/RS485	230M	27	5.0	1.2k~70k	Strong penetration ability
E52-DTU-50	RS232/RS485	315M	17	2.0	1.2k~70k	FEC
E61-DTU-50	RS232/RS485	433M	17	1.0	1.2k~70k	Modbus
E61-DTU-1W	RS232/RS485	433M	30	2.5	1.2k~70k	Modbus
E62-DTU-100	RS232/RS485	433M	20	1.0	16k~128k	Full-Duplex

[WiFi Module]

Model No	RF IC	Power dBm	Distance m	Size mm	Protocol	Packing	Antenna	Feature
E103-W01	ESP8266EX	20	100	16*24	802.11b/g/n	SMD	PCB	Serial to Wi-Fi
E103-W02	CC3200	20	150	27 * 19	802.11b/g/n	SMD	SMD	Low power

[Bluetooth Module]

Model No	RF IC	Power dBm	Distance m	Size mm	Protocol	Packing	Antenna	Feature
E104-BT01	CC2541	0	50	14*22	BT 4.0 BLE	SMD	PCB	BLE
E104-BT02	DA14580	0	70	14.6*21.9	BT 4.1 BLE	SMD	PCB	BLE lbeacon