

etherrape Teileliste (v9, mit Anpassung fuer Infrarot-Teil)

| Teil (Schaltung) | Anzahl | Bezeichnung | Bestellnummer (Reichelt) |
|---------------------------------|--------|-----------------------------|--------------------------|
| R1,R2,R12 | 3 | Widerstand 270R | 1/4W 270 |
| R3-R6 | 4 | Widerstand 50R | 1/4W 51 |
| R21 | 1 | Widerstand 4,7R | 1/4W 4,7 |
| R8,R11,R20,R22-R25 | 7 | Widerstand 10k | 1/4W 10K |
| R7 | 1 | Widerstand 2k7 | 1/4W 2,7K |
| R9 | 1 | Widerstand 240R | 1/4W 240 |
| R10 | 1 | Widerstand 390R | 1/4W 390 |
| R17 | 1 | Widerstand 100R | 1/4W 100 |
| R16 | 1 | Widerstand 430R | METALL 430 |
| R13 | 1 | Widerstand 2740R | METALL 2,74K |
| R14,R15 | 2 | Widerstand 4,7k | 1/4W 4,7K |
| R18 | 1 | Widerstand 33k | 1/4W 33K |
| R19 | 1 | Widerstand 22k | 1/4W 22K |
| C1,C2,C26,C27 | 4 | Kondensator 10n | Z5U-2,5 10N |
| C3,C29 | 2 | Kondensator 10uF | RAD 10/100 |
| C4-C8,C11,C12,C17-C21,(C30),C31 | 14 | Kondensator 100n | Z5U-2,5 100N |
| C9,C10,C15,C16 | 4 | Kondensator 33p | KERKO 33P |
| C13 | 1 | Kondensator 100u | RAD 100/35 |
| C14,C22-C25,C28 | 6 | Kondensator 1uF | RAD 1/63 |
| D1-D3 | 3 | Diode 1N4001 | 1N 4001 |
| D4-D6 | 3 | Diode 1N4148 | 1N 4148 |
| Q1 | 1 | Quarz 25MHz | |
| Q2 | 1 | Quarz 20MHz | 20-HC49U-S |
| POWER | 1 | LED 3mm, gruen | LED 3MM ST GN |
| PWR | 1 | Anreihklemme, 2polig | AKL 055-02 |
| PORTA,PORTC,PORTD,ISP,SPI | 5 | Wannenstecker, 10polig | WSL 10G |
| - | 1 | Hohlstecker 2.1mm | HEBW21 |
| TSOP1738 | 1 | IR Empfaenger | TSOP 1738 |
| ENC28J60 | 1 | Ethernettreiber ENC28J60 | |
| - | 1 | IC-Sockel, 28polig | GS28P-S |
| DF | 1 | Atmel Dataflash | |
| F1 | 1 | Kleinsicherung | MINI FLINK 1,0A |
| FERRITE | 1 | Ferritperle | 06H-75 |
| Stiftleisten | 2 | Stiftleiste, 36polig | SL 1X36G 2,54 |
| IC1 | 1 | Atmel Atmega644 | |
| - | 1 | IC-Sockel, 40polig | GS 40 |
| IC2 | 1 | Spannungsregler LM317 | LM 317-220 |
| IC3 | 1 | Spannungsregler 7805 | µA 7805 |
| IC4 | 1 | Maxim MAX232 Pegelkonverter | MAX 232 CPE |
| - | 1 | IC-Sockel, 16polig | GS 16 |
| IC5 | 1 | 555 Timer | NE 555 SGS |
| - | 3 | IC-Sockel, 8polig | GS 8 |
| IR | 1 | IR LED | SFH 415 |
| MJ1 | 1 | Magjack 40141 RJ45-Buchse | |
| T1 | 1 | Transistor BD139 | BD 139 |
| X1 | 1 | SUBD-9 Buchse | D-SUB BU 09US |
| - | 1 | Kuehlkoerper 7805 | V CK633 |
| - | 5 | Jumper | JUMPER 2,54GL RT |

Hinweis: C30 ist optional und dient der Kopplung der Signalmasse an die Gehaeusemasse!

Zusatz RS485:

=====

| | | | |
|-----|---|------------|-------------|
| IC6 | 1 | MAX485/481 | MAX 485 CPA |
| IC7 | 1 | MAX488 | MAX 488 CPA |

Zusatz Onewire/Temperatur:

=====

| | | |
|---------|---|---------------------------------------|
| IC8,IC9 | 2 | Onewire-Device (MAC/Temperatursensor) |
| IC12 | 1 | Onewire I2C Master (DS2482-100) |