



IC Selection Guide for Gigabit Ethernet Transformer Modules

Talema manufactures a broad range of Isolation Transformer Modules for 10Base-T, 100Base-T, 1000Base-T, AUI and ATM applications. Many of the modules include a common mode choke for noise attenuation matched to the specified transceiver and are designed for extended temperature range (-40°C to +85°C) applications.



| IC Manufacturer | IC Part Number | Talema Part Number | Turns Ratio | Common Mode Choke | Shunt Inductor | Package Style L x W x H (mm) 17.5 x 16 x 5.8 |
|-------------------------------|---|----------------------|----------------|-------------------|----------------|--|
| Broadcom (Allayer) | AL1023 | TGQ-100B | 1 : 1 | Y | Y | 24 pin SOIC |
| Broadcom | BCM5204, BCM5400, BCM5401 | TGQ-100A TGQ-100B | 1 : 1 1 : 1 | Y Y | N Y | 24 pin SOIC 24 pin SOIC |
| | BCM5411, BCM5421, BCM5701 | TGQ-100B | 1 : 1 | Y | Y | 24 pin SOIC |
| Level One (Intel) | LXT1000 | TGQ-100A TGQ-100B | 1 : 1 1 : 1 | Y Y | N Y | 24 pin SOIC |
| ILucent | LU8X31, LU8X32, LU8X24FT | TGQ-100B | 1 : 1 | Y | Y | 24 pin SOIC |
| Marvell Semiconductor | 88E1000, 88E1000S, 88E1010, 88E1010S, 88E1020, 88E1020S, 88E1040 | TGQ-100A TGQ-100B | 1 : 1 1 : 1 | Y Y | N Y | 24 pin SOIC |
| | 88E1011 | TGQ-100A | 1 : 1 | Y | N | 24 pin SOIC |
| | 88E1040, 88E1040S, 88E1041, 88E1041S, 88E1042, 88E1042S | TGQ-100A TGQ-100B | 1 : 1 1 : 1 | Y Y | N Y | 24 pin SOIC |
| National Semiconductor | DP83891 | TGQ-100A TGQ-100B | 1 : 1 1 : 1 | Y Y | N Y | 24 pin SOIC |
| | DP83861, DP83892 | TGQ-100B | 1 : 1 | Y | Y | 24 pin SOIC |

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