

PRODUCT MODEL NUMBER: TL-MC85

ETHERNET OVER COAX ADAPTER



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PRODUCT OVERVIEW

TL-MC85 MoCA[®] 2.5 Ethernet over Coaxial Adapter: - It is designed for data transmission over coaxial cable. Leveraging coaxial cable resource at home, it constitutes a fast and reliable Ethernet home network, connecting terminals such as smart TV, video game console, computer, smart phone etc.

MoCA[®] 2.5 offers actual data rates up to 2.5 Gbit/s, continues to be backward interoperable with MoCA[®] 2.0 and MoCA[®] 1.1, and adds MoCA[®] protected setup (MPS), Management Proxy, Enhanced Privacy, Network wide Beacon Power, Bridge detection and TR-069 remote management.

KEY FEATURES

- **Flexible frequency selection**
 - It works at high frequency range. Frequency range is between 1125~1675 MHz. Channels can be flexibly selected based on network condition.
- **Strong interference-proof capability**
 - Physical layer adopts advanced ACMT mode that is OFDMA, which makes it to get strong interference-proof capability by avoiding high noise at lower frequency.
- **Advanced data link layer agreement**
 - Link layer adopts TDMA protocol, MP2MP structure. Each device can communicate with any other one. All the adapters adopt the same TDD.
- **Absolute bandwidth supply**
 - MOCA[®] 2.5 adapter supports up to 3.0Gbps throughput with low packet loss rate and low latency.

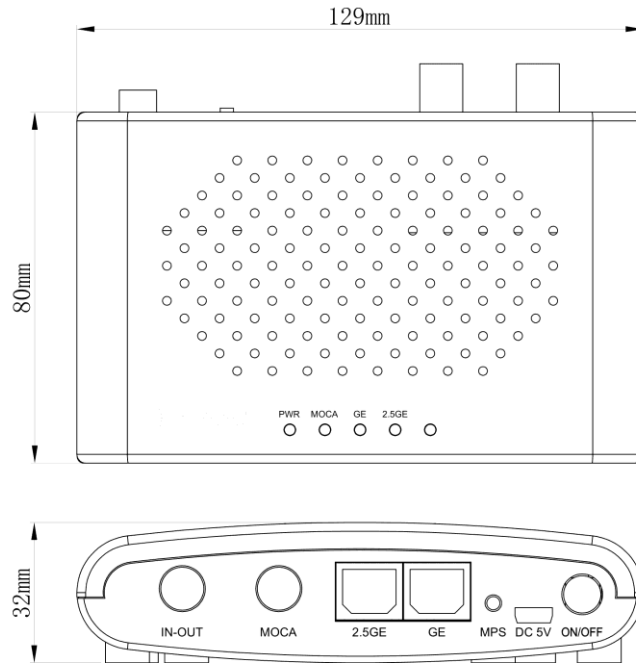
- **TR069 remote management**
 - MoCA[®] 2.5 adapter supports remote monitoring and management through TR-069 protocol, enabling operators accessing into user's in-home network from headend, helps troubleshoot and customer QoE.
- **MoCA[®] protected setup (MPS)**
 - Latest designed MoCA[®] protected setup (MPS) allows one press pairing for the home network install. It makes the self-installation for end user to setup the network easily, and also isolates the home connection from the neighborhood.

SPECIFICATIONS

| Basic Info | |
|--------------------------------------------|----------------------------------------------------------------------------|
| Model | TL-MC85 |
| Technical Standard | MoCA2.5 Standard |
| Maximum Network Node | 16 |
| Communication Mode | |
| Modulation Mode | OFDMA |
| Sub-carrier Quantity | 512*5 |
| Sub-carrier Bandwidth | 195.3125KHz |
| Carrier Modulation Density | BPSK, QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM |
| MAC Layer Protocol | TDMA/TDD |
| Frequency Property | |
| Operating Frequency Range | 1125 ~ 1675MHz |
| Channel Bandwidth | 100MHz * 5=500MHz |
| Upstream/Downstream Frequency Range | Bundled, sharing 500MHz bandwidth |
| Available Beacon Channel Quantity | 1150, 1200, 1250, 1300, 1350, 1400, 1450, 1500, 1550, 1600MHz (50MHz step) |
| Standard Channel | 1125~1625MHz |
| Maximum Transmitting Power | +3dBm |
| Typical Transmitting Power | +2dBm |
| Power Transmitting Mode | Auto/Manual |

| | |
|-------------------------------------------------|--------------------------------------------------------------------------------------|
| Receiving Sensitivity | -70dBm |
| Insertion Loss | < 2dB |
| Transmitting Distance | 300feet |
| CABLE IN Port Frequency | 5 ~ 1675MHz |
| MoCA Port Frequency | 1125 ~ 1675MHz |
| TV OUT Port Frequency | 5 ~ 1002MHz |
| Maximum PHY Rate | 3.6 Gbps |
| Coaxial Cable Application Rate | Bidirectional, up to 3.0Gbps |
| Latency | |
| Typical | 3ms |
| Maximum | 5ms |
| Delay Jitter | 1ms |
| Port Property | |
| Hi/Lo Pass Filter Access Mode (optional) | Built-in |
| RF Port Mode | F-Female, 75 Ohm impedance |
| RF Port | 1 Input (optional) + 1 Output: 1 Input (CATV) & 1 Combined output (MOCA+CATV); |
| Ethernet Port | 2* RJ45 :1000BASE-TX *1, 2500BASE-TX *1 |
| Power Supply Port | DC 5V |
| Power & Consumption | |
| Power Supply | DC 5V/1A, External |
| Power Consumption | <4W |
| Security | |
| Grounding | <5Ω |
| Anti-Static | Contact-Discharge 6KV, Air-Discharge 8KV |
| Power Protection | Surge-Resisting/Low-voltage Protection |
| Dimension | |
| Dimension | 129*80*32mm (L×W×H) |
| Operating Environment | |
| Operating Temperature | -10 ~ 45°C |
| Operating Humidity | 5%~95% , No condensation |
| Store Temperature | -30~70°C |

MECHANICAL DESIGN



For Sales

North America:
sales@transliteglobal.com

Asia:
sales@translite.co.in

Rest Of The World:
sales@transliteglobal.com

For Support

North America:
support@transliteglobal.com

Asia:
support@translite.co.in

Rest Of The World:
support@transliteglobal.com