

PRODUCT MODEL NUMBER: TL-MC84 MoCA 2.5 ETHERNET OVER COAXIAL ADAPTER



DISCLAIMER

No part of this document may be reproduced in any form without the written permission of the copyright owner. The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. TRANSLITE GLOBAL LLC shall have no liability for any error or damage of any kind resulting from the use of this document.

COPY WARNING

This document includes some confidential information. Its usage is limited to the owners of the product that it is relevant to. It cannot be copied, modified, or translated in another language without prior written authorization from TRANSLITE GLOBAL LLC.

PRODUCT OVERVIEW

TL-MC84 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-MC84
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	23 (25MHz step)
Standard Channel	1125~1625MHz
Maximum Transmitting Power	+3dBm
Typical Transmitting Power	+2dBm
Power Transmitting	Auto/Manual

Mode	
Receiving Sensitivity	-70dBm
Insertion Loss	< 2dB
Transmitting Distance	300m
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
Power Supply Port	DC 5V
Power & Consumption	
Power Supply	DC 5V/0.5A, External
Power Consumption	<2.5W
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

For Sales

North America:

sales@transliteglobal.com

Asia:

sales@transliteglobal.co.in

Rest Of The World:

sales@transliteglobal.com

For Support

North America:

support@transliteglobal.com

Asia:

support@transliteglobal.co.in

Rest Of The World:

support@transliteglobal.com