

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



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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