

## PRODUCT MODEL NUMBER: TL-MCA-72 MoCA ACCESS 2.5 NETWORK CONTROLLER



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## PRODUCT DESCRIPTION

Translite TL-MCA-72 transforms the in-building coaxial cabling into a multi-gigabit fiber extension network. This network controller is based on the MoCA Access 2.5 technology standard. It is capable of 2.5 Gbps actual data rates and serves up to 31 modems (clients). This network controller offers a flexible frequency selection of 400~1675MHz and uses the existing in-building coaxial cabling and coexists with other services such as broadcast TV, IPTV, DOCSIS and fiber.

Translite TL-MCA-72 is aimed at cable MSOs, fiber-optic ISPs/network builders, telco's and mobile operators, as well as systems integrators/resellers targeting the hospitality sector. It coexists with DOCSIS while also offering a far greater cost/performance benefit than DOCSIS 3.1.

With Translite TL-MCA-72, operators can now deliver gigabit broadband access and high quality of service (QoS) at a fraction of the cost of fiber and DOCSIS 3.1. No new wiring needs to be installed as it uses the existing coaxial cabling.

Translite TL-MCA-72 is suited for commercial integrators installing networks in hospitality locations, restaurants, offices and other buildings as their fiber extension for implementation of FTTB using the existing coax to each apartment, room or office. It is also ideal for mobile operators looking to add wired backhaul capacity to apartment blocks for 4G/5G fixed mobile convergence.

## KEY FEATURES

- High Bandwidth: TDMA on MAC layer, up to 2.5Gbps actual throughput
- Flexible Frequency Selection: 400~1675MHz
- Dynamic Up/Downstream Allocation: Realizing 2Gbps downstream or upstream throughput

# SPECIFICATIONS

Basic Info	
<b>Model No.</b>	TL-MCA-72
<b>Technical Standard</b>	MoCA Access 2.5
<b>Chipset Module &amp; Manufacturer</b>	Central Office Unit: Mxl371x Chipset Manufacturer: Maxlinear
<b>Numbers of Terminal Supported by Master</b>	31
<b>Modulation</b>	OFDMA
<b>Subcarrier Number</b>	512*5
Communication Mode	
<b>Subcarrier Bandwidth</b>	195.3125KHz
<b>Subcarrier Modulation</b>	BPSK, QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
<b>MAC Layer Protocol</b>	TDMA/TDD
RF PARAMETER	
<b>Working frequency band</b>	400~1675MHz
<b>Channel bandwidth</b>	500MHz
<b>Upstream and Downstream RF Band</b>	Bundled, sharing 500MHZ bandwidth
<b>Available Channels</b>	13
<b>Max Transmitting Power</b>	+2dBm
<b>Typical Transmitting Power</b>	+2dBm
<b>Power Transmitting Mode</b>	Adaptive/Manual
<b>Receiving Sensitivity</b>	-75dBm
<b>Insert Loss</b>	< 2dB
Delay	
<b>Typical</b>	5.7ms
<b>Maximum</b>	7ms

<b>Delay Jitter</b>	1ms
<b>Multicasting</b>	
<b>Max IP Multicasting Number</b>	256
<b>IGMP Snooping</b>	Support
<b>IGMP Version</b>	Support IGMPV1, IGMPV2
<b>QoS</b>	
<b>QoS Type Supporting</b>	802.1P
<b>Priority QoS</b>	Support 4 Priority Queues
<b>Parametric QoS</b>	Support
<b>Network Management</b>	
<b>Quick Configuration</b>	Support WEB NMS
<b>MIB</b>	Support SNMP/NMS NM
<b>Unified NM</b>	Support EPON+EON+HFC Unified NM
<b>Port</b>	
<b>Hi/Lo Pass Filter Access Mode</b>	Built In
<b>RF Port Type of NC</b>	Connector: F type, Female, Metric; Impedance:75 Ohm
<b>RF Port of NC</b>	Support 1 Input + 1 Output: 1 Input(CATV) 1 Combined Output of MoCA Access 2.5 and CATV signal
<b>Network Port of NC</b>	Three RJ45, 1000BASE-T network port, used for upstream and local maintenance
<b>Console Port</b>	Support Serial Port
<b>Power Supply of NC</b>	DC12V
<b>Power</b>	
<b>Power Supply of NC</b>	DC 12V/1A External Power Adapter
<b>Power Consumption</b>	<24W
<b>Electrical Safety</b>	
<b>Grounding Requirement</b>	Grounding Resistance <5Ω
<b>Anti-Static</b>	F-Head / Shell Contact-Discharge 4KV, Air-Discharge 8KV
<b>Lighting Protection</b>	F-Head 4KV
<b>Power Source Protection</b>	Support Surge-Resisting/Under-Voltage Protection
<b>Dimension</b>	
<b>Dimension</b>	256*180*37.5mm (L×W×H)
<b>Weight</b>	

<b>Grounding Requirement</b>	Grounding Resistance <math><5\Omega</math>
<b>Operating Environment</b>	
<b>Operating Temperature</b>	-20~55°C
<b>Operating Humidity</b>	5%~90%, No Condensation
<b>Store Temperature</b>	-30~70°C

## PRODUCT MODEL NUMBER: TL-MCA-62



## PRODUCT DESCRIPTION

TL-MCA-62 is based on the MoCA 2.5 technology standard to transform the in-building coaxial cabling into a multi-gigabit fiber extension network. This product offers a flexible frequency selection of 400~1675MHz. It is mainly applied to the network structure of xPON+ EoC to support the development of video, data and voice services.

## FEATURES

- High Bandwidth: up to 1Gbps actual throughput
- Flexible Frequency Selection: 400~1675MHz
- Low Latency: 5ms
- Supports OFDMA
- Supports IGMP Snooping.

## SPECIFICATIONS

Attribute	Specification
Technical Standard	MoCA Access2.5
RF Interface	F Connector
Impedance	75Ω
Input Frequency of Coaxial Port	5-1675 MHz
Out Frequency of Wired Port	5-800 MHz (max)
Operation Frequency	800-1675 MHz (max)
Typical Transmitting Power	+3dBm
Throughput	2.5Gbps
Input Power	DC 5V/1A
Ethernet Interface	1000M Ethernet

## PRODUCT MODEL NUMBER: TL-MCA-64



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Typical Transmitting Power	+3dBm
Throughput	2.5Gbps
Input Power	DC 5V/1A
Ethernet Interface	1000M Ethernet



Provided by: Mega Hertz | 800-883-8839 | [info@go2mhz.com](mailto:info@go2mhz.com) | [www.go2mhz.com](http://www.go2mhz.com)

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