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

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

Grounding Requirement	Grounding Resistance <5Ω
Operating Environment	
Operating Temperature	-20～55℃
Operating Humidity	5%～90%, No Condensation
Store Temperature	-30～70℃

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

PRODUCT DESCRIPTION

TL-MCA-64 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

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