

EoC NETWORK SYSTEM

Ethernet Adapter

Triteka's EoC-500
EoC Ethernet Adapter



TAKING ADVANTAGE OF THE EXISTING BUILDING COAX

LAN Extension through the existing Coaxial Infrastructure

Triteka's EoC network system is an IP distribution solution allowing a building to be completely networked using the existing coaxial cables.. It's the easiest way to extend the network connection from the buildings ISP's broadband modem to every coax outlet in the building.

Data Rates Of Up To 500 Mbps

Thanks to the advanced patented technology, the EoC Network System is capable of transmitting data rates of up to 500 Mbps to a distance of up to 1 km (3,280ft). It allows you to share network resources and enjoy Internet access through secure high-speed data connection over the buildings wiring already in place.

Simple and Easy installation

Simply connect the EOC-500 EoC Ethernet Adapters to the buildings existing coaxial network, power up the unit and it transforms the existing coaxial cables into a building-wide network with no need for additional wiring.

High Speed and QoS for High Definition Video

The inherent advanced QoS features empower the EoC Network System to become ideal access tools for service providers to deliver multimedia services such as IPTV, high-speed Internet access, and voice services.

Advanced 128-bit AES Security

With the 128-bit Data Encryption Security (AES) feature, the EoC Network System provides secure network connection for Internet access and network resource sharing. Just enjoy fast Internet surfing experience and secure file transfer.

FEATURES

- Turns any coax outlet into a network connection
- Co-exists with DBS, CATV, SATV, and Local antenna
- Delivers up to 350 Mbps symmetric throughput
- Symmetric Network Speeds (Upstream rate equals Downstream rate)
- Simple plug-N-play installation
- Built-in QoS, enabling smooth audio streaming and lag-free gaming
- Network Protection with Advanced 128-bit AES Security
- Noise immunity
- Operates over poor infrastructure (coax, splitters, etc.)
- Frequency Band coverage between 2-68 MHz
- Supports up to (254) EoC Ethernet adapters on a single network

APPLICATIONS

- Higher data rate broadband Networking
- Shared internet access
- Audio streaming and transfer
- Expanding the coverage of wireless LANs
- Voice over IP (VoIP)
- PC file and application sharing
- Network and online gaming
- Security Cameras

IP CONVERGE SOLUTIONS

EoC NETWORK SYSTEM

Ethernet Adapter

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

POWER	<ul style="list-style-type: none"> Internal power supply Input: 100 – 240 VAC 50-60Mhz
PHYSICAL SIZE	<ul style="list-style-type: none"> 18.8cm(L), 13.3cm(W), 3.3cm(H)
WEIGHT	<ul style="list-style-type: none"> 175 grams
INTERFACE	<ul style="list-style-type: none"> 1 LAN, 1 GigE Base-T, RJ-45 port RJ-11 port (not functional) 1 LAN, 500 Mbps, Female F-connector 4 LAN, 1 GigE Base-T, RJ-45 ports (optional)
LED DISPLAY	<ul style="list-style-type: none"> POWER LINK LAN LAN 1-4 (optional with model -4L & WL) WLAN (optional with model-WL)
ENVIRONMENTAL CONDITIONS	<ul style="list-style-type: none"> Operating Temperature: 32°F (0°C) – 104°F (40°C) Storing Temperature: -40°F (-40°C) – 158°F (70°C) Operating humidity: 95% max non-condensing

RF SYSTEM PERFORMANCE

DATA TRAFFIC	<ul style="list-style-type: none"> Half Duplex
MEDIA ACCESS CONTROL	<ul style="list-style-type: none"> CSMA/CA with ACK
COAX IMPEDANCE	<ul style="list-style-type: none"> 75 Ohm
DYNAMIC RANGE	<ul style="list-style-type: none"> 90 dB
OPERATION RANGE	<ul style="list-style-type: none"> up to 3280 ft (1000 meters) over coax
FREQUENCY BAND	<ul style="list-style-type: none"> 2 - 28 MHz (EoC-200 Series) 2 - 68 MHz (EoC-500 Series)
RF OUTPUT LEVEL	<ul style="list-style-type: none"> 110 dBuV max.
STANDARDS	<ul style="list-style-type: none"> IEEE 802.3, HomePlug AV+ (500Mbps)
NO. ADAPTER UNITS	<ul style="list-style-type: none"> Supports up to (254) EoC Ethernet Adapters

PERFORMANCE & SUPPORTED CONFIGURATIONS

TARGET UDP THROUGHPUT	<ul style="list-style-type: none"> Up to 350 Mbps sustainable throughput
SIMULTANEOUS VIDEO	<ul style="list-style-type: none"> 35 MPEG-4 HDTV IPTV streams (10 Mbps data rate) 70 MPEG-2 SD IPTV streams (5 Mbps data rate)

TRAFFIC MANAGEMENT & QUALITY OF SERVICE

CLASSES OF SERVICE	<ul style="list-style-type: none"> ToS, CoS and IP Port Number Packet Classifiers
HARDWARE QUEUES	<ul style="list-style-type: none"> Supports up to 4 queues per port
AUTOMATIC TRAFFIC CLASSIFICATION	<ul style="list-style-type: none"> Automatic type of service tagging for multicast video packets

MANAGEMENT

CONFIGURATION	<ul style="list-style-type: none"> Web Based user interface TR-069
LOGIN	<ul style="list-style-type: none"> User Admin

MULTICAST VIDEO IPTV

IGMP SNOOPING	<ul style="list-style-type: none"> Enhanced IPv4 IGMPv1-3 snooping to improve the performance of streaming media and other bandwidth-intensive IP multicast applications. Supports IGMP managed multicast sessions Supports IPv6 and MLDv1-2 snooping Multicast to multiple unicast support CSMA
MULTICAST OPTIMIZATION	<ul style="list-style-type: none"> Direct Multicast IPTV packets to each Ethernet adapter within the designated multicast group using the optimum data rate and adapter unit selection Automatic classification into video queues Ensures reliable transmission of multicast video packets

EoC-500 - LEDs & CONNECTORS



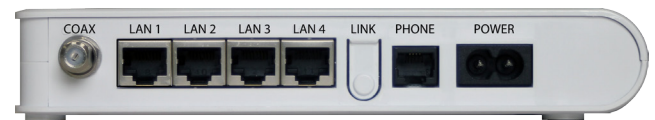
POWER	LINK	LAN 1-4*	WLAN**
ON if Adapter is powered on. FLASHING if Adapter is in energy saving mode.	ON if Adapter #2 is detected. FLASHING if network activity is detected.	On if LAN port is connected to an IP client device. FLASHING if Data is being transferred over the port.	ON if WiFi is operational. FLASHING if network activity is detected.

* LAN 2,3,4 are available with Model EoC-500-4L & WL **WLAN is available with with Model EoC-500-WL



COAX	LAN 1	PHONE	POWER
To connect to the TV's RF wall outlet	To connect to the modem or router/IP Client Device	NOT functional	To connect to the electrical outlet

EoC-500-4L - CONNECTORS



COAX	LAN 1-4	PHONE	POWER
To connect to the TV's RF wall outlet	To connect to the modem or router/IP Client Device	NOT functional	To connect to the electrical outlet

PRODUCT ORDERING INFORMATION

MODEL	DESCRIPTION
EOC-500	with (1) GigE LAN port
EOC-500-4L	with built-in (4) GigE LAN ports
EOC-500-WL	with built-in 802.11n + (4) GigE LAN
EOC-500-AP	with built-in 802.11n AP

PLEASE NOTE:

When ordering you must specify the destination region by indicating -US -EU -UN or -JP following the model number.

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