

Item no.: EKA1000

Televes EKA1000 - CoaxData(TM) Ethernet Hybrid Adapter, 1 Gbps, 2x RJ-45

from **185,02 EUR**

Item no.: EKA1000
shipping weight: 0.40 kg
Manufacturer: Televes



Product Description

Televes EKA1000 - CoaxData(TM) Ethernet Hybrid Adapter, 1 Gbps, 2x RJ-45

The CoaxData(TM) 1Gbps-HDTV can transmit IP data over coaxial cable installations with coexistence of TV channels or other existing services. The Coaxial Ethernet modem immediately connects multiple PCs on the coaxial network or power line on your home, hotel or buildings without additional cabling.

Televes provides two variants of the product:

The CoaxData(TM) 1Gbps-HDTV EKA1000 incorporates a power supply, two "F" connectors for TV and data connectors and two RJ-45 Ethernet 1000BASE-T/100BASE-TX/10BASE-T.

The CoaxData(TM) 1Gbps-HDTV EKA1000SFP incorporates an Ethernet 1000BASE-T/100BASE-TX/10BASE-T and an SFP (according to MSA INF-8074i specification of the SFF Committee). This connector allows you to use Gigabit modules 1000BASE-LX/1000BASE-SX/1000BASE-CX or built-in SFP devices that support new protocols like EPON (IEEE 802.3ah) or GPON (ITU G.984) to integrate the CoaxData(TM) in fiber optic networks. [Main Features](#)

- IEEE 1901 compliant with HomePlug AV PHY that supports 2880 OFDM carriers with 4096/1024/256/64/16/8 QAM, QPSK, BPSK and ROBO mode capable of transmitting up to 700 Mbps and up to 350 Mbps physical rate of rate UDP over coax
- Supports Quality of Service (QoS) and incorporates packet classification rules and multiple transmission queues
- Advanced encryption (AES-128) to ensure security for their communications and private networking no other user can use the same network
- Sharing access to high speed Internet, connect up to 253 modems in its distribution network, no hubs or switches are required, data travels on the chosen cable installation
- Operating bandwidth in the return channel from 2 to 67.5 MHz with a maximum attenuation of 85 dB supported, no requirement of minimum attenuation, reach distances greater than 1 km
- Supports IGMPv3 multicast management streams for efficient implementation of IPTV or VoIP systems, allowing the management of up to 32 different channels

Specifications

General:

IP network adapter to coaxial infrastructure and power line

Modes HomeNetworking and MDU/MTU

Up to 253 devices per master in mode MDU/MTU

Supports multiple masters, up to 4, on the same frequency for a total of 1012 devices

Data frequency range: 2 to 67.5 MHz

TV frequency range: 87-2150 MHz

Maximum attenuation: 85 dB

Output signal: 130 dBuV

Power spectral density: -50 dBm/Hz

Low power spectral density: -135 dBm/Hz

Temperature range: -5°C to 45°C

Distance:

Coax cable: 1.2 Km

Power line: 300 m

LED:

LED on/off

Medium: Detection half coaxial/hybrid

Link: Link establishment and activity

1000/100/10 Mbps: Ethernet link and activity

Standards:

IEEE 802.3 10BASE-T, 100BASE-TX, 1000BASE-T

HomePlugAV IEEE P1901

SFP with support for 802.3z 1000BASE-X

Modulation and channel codification:

Dynamic adaptation to channel conditions and frequency synchronization with the PLC network 50/60 Hz

2880 OFDM carriers, QAM 4096/1024/256/64/16/8, QPSK, BPSK and ROBO mode

Automatic error correction based on FEC (forward error correction) and TCC (Turbo Convolutional Codes)

QoS:

Supports multicast, IGMP snooping, MLDv2/IGMPv3/IGMPv2

Four transmission queues prioritized

VLAN IEEE 802.1p prioritization

Type of Service (ToS) and COS (Class of Service)

Source/destination MAC address classifier

Source/destination IP address classifier

Other adjustable classifiers filters

AC and consumption:

108-254 V – 50/60 Hz

Consumption: Max. 6 Watts

Low power mode (advanced power management): Max. 1.8 Watts

Transfer methods:

HomeNetworking: Asynchronous mode based on CSMA/CA with low latencies

MxU: Token-based synchronous mode (Hidden Node) which synchronizes slave transmissions and supports long distances

Security:

Establishment of private networks using network key (NPW, network password key)

Privacy of communications using AES-128 encryption (NEK, network encryption key)

Privacy settings on devices using AES-128 access key (NVAK, non-volatile access key)

Connectors:

Electric cable EURO

2x "F" connectors 75 Ohm, low pass filter to the data (2 to 67.5 MHz) and high-pass filter for TV Services (87-2150 MHz)

2x RJ45 ports for 1000/100/10Mbps, auto Ethernet MDI/MDIX

Normatives:

Compact design, robust and shielded that meets all applicable regulations

UNE-EN 60950-1:2007/AC:2012 product safety

UNE-EN 55022:2008 radio interference

UNE-EN 55024:2011 immunity requirements

UNE-EN 50412-2-1:2006 immunity requirements for low voltage installations for communications equipment over powerline

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prices and availability

