

Ethernet over Coaxial Modem

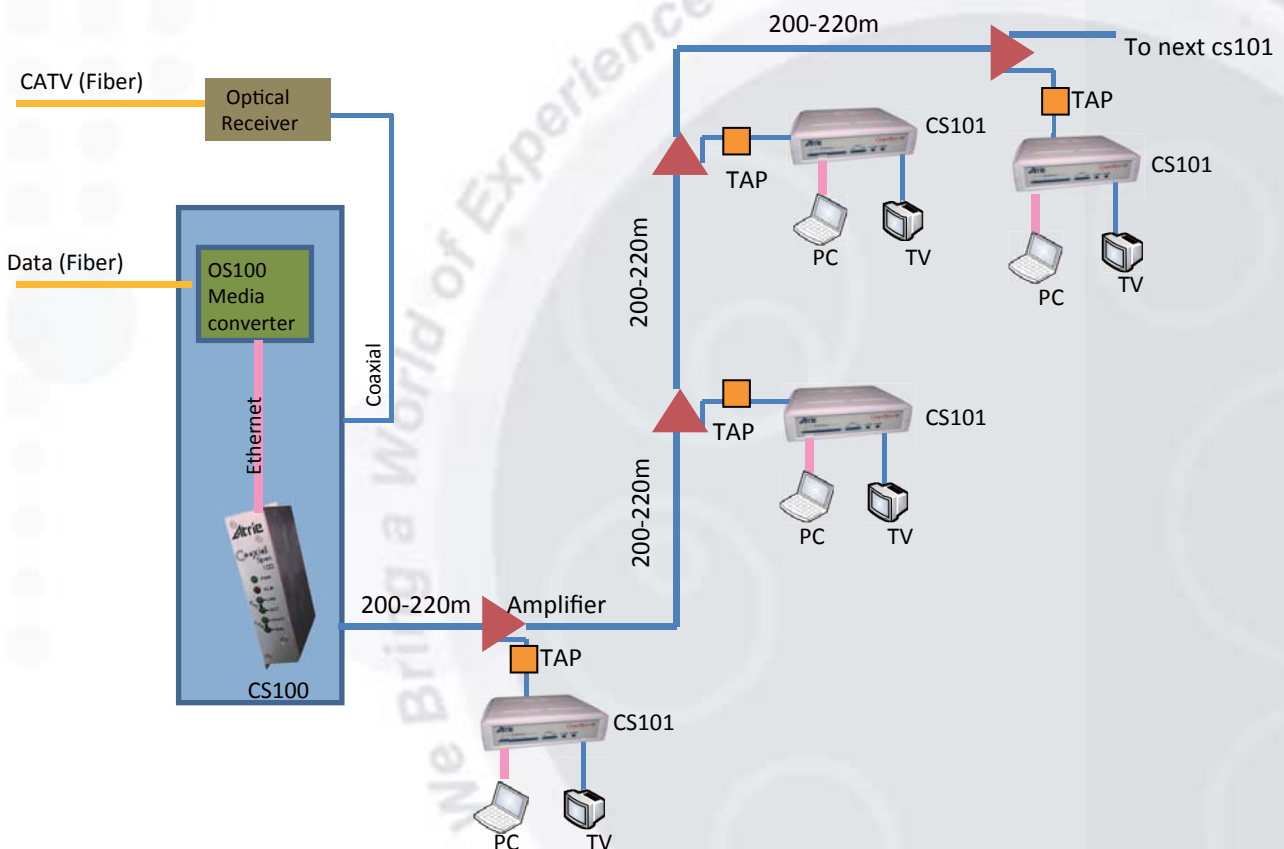
► CoaxialSpan 100 ◀

Features

- **Extends LAN connectivity using existing coaxial cable**
- **Transmits CATV and Ethernet over the same coaxial cable**
- **Point to multi-point upto 64 slave nodes**
- **QoS with 8 level priority queues**
- **ATRIE NMS-view supported**



Application



Ethernet over Coaxial Modem

Specification

EoC Interface

- Transfer rate : Up to 200Mbps including payload and overhead
- Standard : Fully compliant with the HomePlug AV standard
- Work frequency : 2 ~ 35MHz with OFDM (1366 sub-carriers maximum).
- Modulation : 1024/256/64/16/8-QAM, QPSK, BPSK and ROBO auto-adapting
- Protocol : TDMA, CSMA/CA
- Encryption: 128bits AES
- Main processor : SPIDCOM chipset with ARM926 advance dual core architecture
- Line Impedance : 75 Ohm.
- Connector : F female type COAX
- Up to 64 direct slave devices concurrent connection

Ethernet interface

- Single port
- Type: IEEE 802.3 compliant 1000BASE-T, 100BASE-TX, and 10BASE-T
- Auto negotiation with auto MDI/MDIX crossover.
- Connector: RJ45

Bridging mode ability

- MAC Tables: Up to 128 MAC addresses (learned)
- VLAN: IEEE 802.1Q up to 64 Tag ID. The master can assign VLAN ID/PRI to each port of Slave
- EOC MAC layer TDMA and CSMA/CA access and mapping protocols with Ethernet layer 2 IEEE 802.1p ToS, CoS and IP Port Classifiers with 8 level priority queues and IEEE 802.1D Bridge and spanning tree protocol pass through
- IGMP managed multicast sessions for IPTV application

Network Management

- SNMP and Web-based network management protocol
- Bandwidth limitation for each End-Point
- Telnet/SSH CLI-based supported
- Secured/Isolated Communication between each End-point devices

Management and Maintenance

- LED Indicator : PWR, ALM, EOC Link, EOC ACT, ETH Link/ACT, ETH 1G
- Firmware upgrade via FTP protocol

Physical Dimensions

- Dimensions : 112mm(L)x87mm(W)x28mm(H)

Environment

- Temperature : 0~70°C.
- Humidity : 0%~95%R.H. (Non-condensing).

Power Requirement

- DC12V/3.3V via 2x2 Mini-fit connector
- Power consumption : 5.0 Watt (Max.)



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