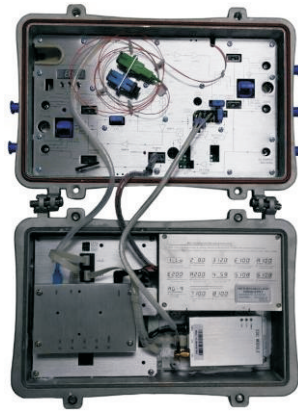# ANM9002-4

Product Overview

ANM9002-4 are EoC(Ethernet over Coax)Masters with the access function of CATV(cable television) and internet broadband data. They can implement hybrid output of internet data signal and CATV signal through cable television distribution network to realize co-cable transmission of television programs, voice signal and internet content.

ANM9002-4 adopt the latest Qualcomm Atheros 7410 solution, providing PHY rates of 700Mbps and up to 700Mbps of throughput over Coax in coaxial network.

ANM9002-4 have built in PON ONU module, which can support seamless linkage with OLT and transform the passive optical signal output by OLT into standard Ethernet signal and then module it from Ethernet signal to RF signal that can be transmitted in coaxial cable. ANM9002-4 adopt OFDM technology to ensure the reliable data transmission in a complex network environment.

ANM9002-4 have a optical interface for 1310/1490/1550nm optical fibers(or two optical interfaces, video and data are separated) carrying CATV ,data and voice signal and ANM9002-4 can modulate these optical signals to RF signals which can be transmitted by a coaxial cable.

ANM9002-4 have built in 2 EoC modules. And every EoC module can connect up to 64 EoC terminals according to bandwith demand.

ANM9002-4 have built in network management module(s), which support remote network management can enable you to log in ANM9002-4 with WEB/SNMP/TELENT. And you can use it for centralized management on the connected EoC terminals such as QoS setting, encryption setting, statistical and status information inquiry and software upgrade.

ANM9002-4 occupies low frequency band under 65Mhz and has no collision with the current CATV system frequency, which can decrease mutual interference. Besides, it supports the current CATV network of tree and chain architecture, enable long distance transmission and enjoys high bandwith and good network adaptability. It completely meets the requirement of Triple-Play of broadcasting and television system.

ANM9002-4 are coated with Aluminum and have the broadcasting and television conventional waterproof shell for outdoor installation which makes it suitable for outdoor wire-lashing installation convenient for operation.

Product Features

¾ Adopt B3G/4G communication's OFDM technology

¾ Correspond with IEEE HomePlug AV IEEE 802.3 10/100/1000 Ethernet, IEEE 802.3ah standard

¾ Built in CATV RF and EOC signal mixer

¾ In the model of multi -module, every EoC module connect each other with Giga switch network to ensure hig   h

  bandwith needs

¾ Support OAM management based on IEEE 82.3 ah protocol

¾ Support Forward Error Correction(FEC) and Dynamic Bandwidth Allocation(DBA)

¾ Support G.652 single mode optical access, SC/PC flange plate interface

¾ Network Management Function

  □ After Logging in ANM7000 series, the user can remotely its under-connected coaxial cable EoC terminal

  □ Support management with SNMP/CLT/WEB/TELNET/SSH

  □ Support remotely upgrading and local management with serial port

  □ Support SNMPv3 protocol,SSH2 protocol

  □ Support comprehensive network management developed by Richerlink

  □ Support IEEE 802.1Q Tag -Based VLAN

  □ Support Qos function

  □ Support mutual-isolation the terminals with the same EoC master

  □ Support terminals download/uplink speed limitation

  □ Support IGMP

  □ Support white list function

  □ Support broadcast packets/unknown packets suppression

  □ Support terminals MAC address quantity limitation

  □ Support VLAN division and management

  □ Support port mirro function

  □ Support overlength frame and abnormal frame detection

  □ Support remotely upgrading function and log record function

¾ Built in lowpass filter to separate data signal and TV signal

¾ Support up to 128 coaxial cable network unit access

¾   Built in high quality power module, steady and reliability

Coated with airtight aluminum shell that resist water and dust and have highly efficient cooling effect

Product Specification

ITEM	ANM9002-4
EoC Module	Two Qualcomm 7410 EoC mater modules
Power	30W
Transmission Speed	700Mbps
Homeplug RF	Occupied Bandwith:7.5 67.5MHz;Output Power: 108dBuV
CATV RF	Occupied Bandwith:87-1000MHz;Input Return Loss:>16dB; Insert Loss: 1dB Flatness: ±0.75dB C/N: 51dB -1dBmN ; C/CTB: 65dB;C/CSO: 60dB RF Output Signal Level: 110dBuv
Optertical Character	Data Optical Interface:1 PON interface, single mode, FC/PC Data Optical transmission Wavelength: 1310nm Data Optical Receiving Wavelength:1490nm TV Optical Receiving Wavelength:1100 to 1600nm, typical 1550nm TV Receiving Optical Power:-9dBm to +2dBm TV Optical Interface: Single, FC/APC
FWDM	Include default
Connection Type	F breakthrough Connector(inch/metric optional)
RF Impedance	75Ω
Standards Compliance	IEEE HomePlug AV IEEE 802.3, IEEE 802.3x, IEEE 802.3u Auto MDI(X)
Remote Management	Support remote WER management, TELENT, SNMP; Support centralized management on all connected EoC terminals
Protocol	TDMA/CSMA
Coding Mode	Asynchronous
Modulation Mode	OFDM
Transmission Distance	500m-1000m
Encryption Mode	128-bit AES
Power	110-264VAC/40-95VAC
Size(LxWxH)	340×235×140mm
Weight	3.9kg
Operation Temperature	-25 65 ℃
Storage Temperature	-40 70 ℃
Operation Humidity	10% 90% non-condensing
Storage Humidity	10% 95% non-condensing