



## ***Cable Modem Specification***

**JH-CM301**    DOCSIS3.0



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## 1. Description

The JH-CM301 is an 8x4 Cable Modem which provides faster connection to the internet by incorporating eight bonded downstream channels along with four bonded upstream channels, it delivers high-speed data service over cable network to the home.

The Cable Modem is designed to meet DOCSIS 3.0/EURO-DOCSIS3.0 specifications as well as offer backward compatibility for operation in DOCSIS 2.0, 1.1 and 1.0 networks.

### Feature:

- Software upgradeable by network download
- Remote manageability using SNMP V1/V2 and V3
- Built-in web server
- Supports IPv4 /IPv6 protocol

## 2. General Specification

Section	Parameter	Specification				
Interface	RF	RF connector(F-Type Female)				
	Ethernet	1000/100/10BASE-T auto-sensing/auto-MDIX Ethernet port				
	Power	AC Jack				
DOCSIS DOWNSTREAM	Diplexer	LPF 5 to 42 MHz, 5 to 65 MHz or 5 to 85 MHz, HPF 88-1002MHz				
	Input Frequency Range	EURO	108MHz to 1002MHz			
	Input signal level	-17dBmV to +13dBmV @ 64QAM -13dBmV to +17dBmV @ 256QAM				
	Data Rate	N.A	MAX 300Mbps for 8 channel bonding			
		EURO	MAX 400Mbps for 8 channel bonding			
	Bandwidth	N.A	6MHz			
		EURO	8MHz			
	Input Impedance	75 ohm				
Input Return Loss	108MHz-1002MHz>8dB					
DOCSIS UPSTREAM	Output Frequency Range	N.A	5 MHz to 42MHz			
		EURO	5 MHz to 65MHz			
	Output signal Level range (one channel)	Modulation	1280Mbps	5120Mbps	TDMA/S-CDMA	MAX output level (4 channel bonding) A-TDMA/S-CDMA
			QPSK	17 dBmV	23dBmV	61/56dBmV
		8QAM	17 dBmV	23 dBmV	58/56 dBmV	52/53 dBmV
		16QAM	17 dBmV	23 dBmV	58/56 dBmV	52/53 dBmV
		32QAM	17 dBmV	23 dBmV	57/56 dBmV	51/53 dBmV
		64QAM	17 dBmV	23 dBmV	57/56 dBmV	51/53 dBmV
		128QAM(S-CDMA)	17 dBmV	23 dBmV	-/56 dBmV	-/53 dBmV
	Symbol rate	160 KHz,320 KHz.640 KHz,1280 KHz ,2560 KHz,5120 KHz				
	Data rate	120 Mbps for 4 channel bonding				
	Bandwidth	200 KHz,400 KHz.800 KHz,1600 KHz ,3200 KHz,6400 KHz				
	Output Impedance	75 ohm				
Output Return Loss	5 MHz-65 MHz>10 dB					

<b>Power supply</b>	Input Power	85-265V AC
<b>Power consumption</b>	Operating Power	7 W
	Peak Power	7.6 W
<b>Temperature Range</b>	Operating case temperature range, Tc 0 °C to 40 °C	
	Storage -40 °C to +85 °C	