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## CSP2080 CMTS & CSP-S v3.0



CSP2080 CMTS is the latest generation CMTS that we present recently. It compatible with both Euro-DOCSIS 1.1 & DOCSIS 1.1 standard and adopts Broadcom's core chip technology. It can provide strong data processing and stability. The CMTS can be used as the equipment of bidirectional HFC and broadband IP network. The CMTS can supply CATV user high-speed internet access, Video-On-Demand, SOHO , long-distance education and IP phone, etc

CSP2080 integrated full channel upconverter, Minimization 1U design, to save the installation space and can be extended easily. As to the operation, CSP-S is the best network management software for choice. It can manage the CMTS, CM and CPE configuration, testing, authorization and alarm conveniently. There are two versions, English and Chinese. It has strong functions and compact operation interface. Based on Windows operation system, the common PC can be used as the network management server. It has excellent tele-management function, you can telnet the CMTS to manage and upgrade the software.

With excellent performance, competitive price and perfect after sales service, the CSP2080 CMTS would be your best choice of HFC construction.

### Features

- Compliant with DOCSIS/EuroDOCSIS1.1
- Minimization 1U design
- 4 upstream channels,1 downstream channel
- Integrated upconverter, LED display
- Adopt high capability CPU
- Special power supply
- Realizable of tele-management
- Strong capability, low price

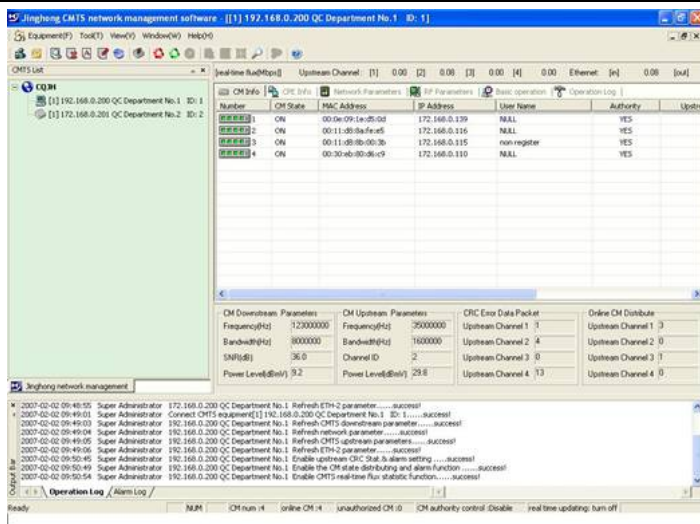

**Specifications**




		Downstream parameters		Upstream parameters			
		Euro DOCSIS1.1	DOCSIS1.1				
Modulation		64QAM, 256QAM		Modulation		QPSK, 16QAM	
Frequency range		112~858MHz adjustable range	91~587MHz	Frequency range		5~65 MHz	
		Step size: 1MHz				Step size :1Hz	
DS bandwidth		8MHz	6 MHz	US bandwidth		200, 400, 800, 1600, 3200 KHz	
Data speed	64QAM	41Mbps	27 Mbps	Data speed	QPSK	320, 640, 1280, 2560, 5120 Kbps	
	256QAM	55 Mbps	38 Mbps		16QAM	640, 1280, 2560, 5120, 10240 Kbps	
Output power level		Max. 61 dBmV Adjustable range 45~58dBmV Step size:1dBmV		Received power level		160 Ksymps	-16~+14 dBmV
						320 Ksymps	-13~+17 dBmV
						640 Ksymps	-10~+20 dBmV
						1280 Ksymps	-7~+23 dBmV
						2560 Ksymps	-4~+26 dBmV
Symbol rate	64QAM	6.952 Msymps	5.056941 Msymps	Symbol rate		160, 320, 640, 1280, 2560Ksymps	
	256QAM	6.952 Msymps	5.360537 Msymps				
Channel number		1		Channel number		4	
Reflected waste		>14dB		Reflected waste		>14dB	
Output impedance		75 Ω		Input impedance		75 Ω	
Protocol supported		Chinese DOCSIS, Euro-DOCSIS1.1, DOCSIS1.1, TCP/IP, ARP, RIP v2, ICMP, DHCP, TFTP, SNMP, PPPoE, DHCP relax proxy, Telnet etc.					
Physical parameters							
RF interface		1 downstream, 4 upstream metric F ports		Input voltage		AC220V or DC48V	
Network interface		2 full duplex10/100BaseT ports		Power consumption		<80W	
Status display		LED display		Net weight		7.5Kg	
Other interfaces		Com1, Mouse, Keyboard, Video		Work temperature		0~40℃	
Dimensions (H*D*W)		430mmX44mmX450mm		Humidity		<90%	

CSP-S is the CM system network management software that developed based on the practical need of broadcast television and telecom operators----CSP-S 3.0 edition. The main purpose of the software is to ensure the safety and normal operation of network transmission (upstream and downstream). It can timely send warning tone to inform the relevant person. It also can help the operators to create network platform that can be operated and managed. It achieve lower operating costs to the maximum extent ensure the operational stability and sustainable development.

By authorized the license, the software can manage many Jinghong CMTS that deployed in the same interface, can reduce the costs and increased management efficiency. At the same time, the software provides tele-control management functions to achieve the headend tele-control and manage CMTS that deployed in the sub-headend and node.

Feature

<ol style="list-style-type: none"> <li>1. Rich CM management</li> <li>2. Efficient network configuration</li> <li>3. Controllable RF management</li> <li>4. Real-time statistics and alarm</li> <li>5. Practical operational management</li> <li>6. Unique network security</li> <li>7. Integrated operation log</li> <li>8. Cononical Operation</li> </ol>	
<p>CM Management</p>	<p>Function description</p>
	<ol style="list-style-type: none"> <li>1. CM access authority control</li> <li>2. The additional and deleted management of CM</li> <li>3. To browse, query and classify CM information</li> <li>4. Show CM main RF information</li> <li>5. Statistics registration and online CM quantity according to upstream RF interface</li> <li>6. Backup CM database information</li> <li>7. Exchange and separation of CPE</li> <li>8. Tele-restart CM</li> <li>9. CM real-time status</li> </ol>

	10. CM user payment management
<b>CPE Management</b>	<ol style="list-style-type: none"> <li>1. IP information of CPE and relevant CM</li> <li>2. CPE backup</li> </ol>
<b>Network Parameters</b>	
	<ol style="list-style-type: none"> <li>1. CMTS IP parameters setup</li> <li>2. CMTS IP parameters for the external gateway</li> <li>3. Install CM and CPE network transmission mode</li> <li>4. Open or close the PPPoE access of CPE</li> <li>5. CMTS Network Security setup</li> </ol>
<b>PF Parameter</b>	
	<ol style="list-style-type: none"> <li>1. Setup the downstream modulation mode</li> <li>2. Open/close the RF ports of every upstream</li> <li>3. Set the frequency dot of upstream RF port</li> <li>4. Set the modulation mode and bandwidth of upstream RF</li> <li>5. Preestablish the upstream frequency and auto-skip</li> </ol>
<b>Statistic &amp; Alarm</b>	
	<ol style="list-style-type: none"> <li>1. Custom real-time alarm when CM system is running</li> <li>2. Poll statistic and alarm the CM signal quality</li> <li>3. The status distribution statistics and alarm of CM</li> <li>4. CRC quantity statistics and alarm of CMTS upstream RF interface</li> <li>5. Flow statistics of CMTS upstream RF interface and Ethernet interface</li> </ol>
<b>Basic Operation</b>	<ol style="list-style-type: none"> <li>1. Operation authority of administrators</li> <li>2. Shutdown, reboot CMTS</li> </ol>
<b>Operation Log</b>	<ol style="list-style-type: none"> <li>1. List all of the operation log after the administrator's login</li> <li>2. Output the operation log and saved it</li> </ol>
<b>DHCP server</b>	<ol style="list-style-type: none"> <li>1. Internal DHCP server</li> <li>2. DHCP relay proxy</li> </ol>