

***Provisioning Server for Cable Modem Subscribers (DPS-100)***

**Specifications**

Physical	<ul style="list-style-type: none"> <li>• 2U rack mount; depth 14 in.;</li> </ul>
Network Interface	<ul style="list-style-type: none"> <li>• 10/100 Ethernet</li> </ul>
User interface	<ul style="list-style-type: none"> <li>• CLI and Web based interface; Telnet, FTP</li> <li>• Remote monitoring and configuration of Servers</li> </ul>
DOCSIS Support	<ul style="list-style-type: none"> <li>• DOCSIS 1.0/1.1/2.0</li> <li>• US and Euro-DOCSIS support</li> </ul>
Provisioning Servers	<ul style="list-style-type: none"> <li>• Servers: DHCP, TOD, TFTP, FTP, Telnet &amp; Web Server</li> </ul>

**User Interface**

User Interfaces supported	<ul style="list-style-type: none"> <li>• Web browser based GUI interface</li> <li>• Serial interface and Telnet</li> </ul>
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**Configuration and Monitoring**

Configuration	<ul style="list-style-type: none"> <li>• Web browser based GUI for Remote and local configuration</li> <li>• CLI (over serial interface and Telnet)</li> <li>• Remote Monitoring and Configuration.</li> <li>• Remote Monitoring and Configuration.</li> </ul>
Monitoring	<ul style="list-style-type: none"> <li>• Remote monitoring of CMTS and CMs</li> <li>• Manage and sort subscriber information based on key parameters</li> </ul>

**IP Network Monitoring**

IP Network Monitoring	<ul style="list-style-type: none"> <li>• SNMPv1 and v3</li> <li>• IETF MIBS</li> <li>• DOCSIS MIBs</li> <li>• Tools to display the MAC and IP address of CM and CPE's.</li> </ul>
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**DHCP Server Specifications**

DHCP support for multiple subnets	<ul style="list-style-type: none"> <li>• Easy to configure DHCP server</li> <li>• Support multiple subnets both routable and private at the same time</li> <li>• Separate private subnet for Cable Modems</li> </ul>
Flexible subnet ranges & Leases	<ul style="list-style-type: none"> <li>• Configure multiple static and dynamic ranges within a subnet</li> <li>• Configure lease times for CM and PCs and any other user equipment</li> </ul>
Monitor DHCP lease history	<ul style="list-style-type: none"> <li>• Monitor DHCP client lease history</li> </ul>
Private subnet for Cable Modems	<ul style="list-style-type: none"> <li>• Support option 82</li> <li>• Separate subnet for Cable Modems and PCs</li> <li>• Control subscriber tampering of Cable modems (CMs), CM configuration file or CM allocated bandwidth rates.</li> </ul>
Monitor CM and PC users	<ul style="list-style-type: none"> <li>• Monitor MAC address and IP address of CM's and PC's.</li> </ul>

### **TFTP Server Specifications**

High capacity TFTP	<ul style="list-style-type: none"><li>• Support multiple simultaneous TFTP sessions</li><li>• Support large number of CMs registering at the same time</li></ul>
CM Upgrades	<ul style="list-style-type: none"><li>• Upgrade CM firmware using the TFTP server</li></ul>

### **Subscriber Management System (SMS) Specifications**

Subscriber Provisioning	<ul style="list-style-type: none"><li>• Subscriber Provisioning Manager:</li><li>• Subscriber database with account#, address, CM MAC address,</li><li>• QoS Service level control per subscriber</li><li>• Service activation/de-activation</li><li>• Fixed or Static IP address assignment/management</li></ul>
QoS	<ul style="list-style-type: none"><li>• Bandwidth Rate control of subscribers to manage bandwidth hogs</li><li>• Multiple levels of service with configurable Upstream and Downstream bandwidths per subscriber</li></ul>

### **Security Features**

Password and ACL based security	<ul style="list-style-type: none"><li>• Password protection to access Provisioning Server</li><li>• Access Lists Control (ACL): Enable only authorized users from accessing the CMTS.</li></ul>
Configurable HTTP Port	<ul style="list-style-type: none"><li>• Configure HTTP to any port number desired.</li><li>• Added protection from routine hacking on well-known port 80.</li></ul>

### **Network Management**

SNMP	<ul style="list-style-type: none"><li>• SNMP V1 and V3 support</li></ul>
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