

DOCSIS 2.0 Pizza Box CMTS

OPAL-TINY systems enable carriers to offer scalable, secured high speed, value-added IP services into hotels and buildings

The **TINY LINE** major aim is to allow networks operators to take benefits of the internet technology what ever the size of their network.

Using your already installed cable TV architecture, they will immediately connect their hotel or their building to the Internet network using the **TINY LINE**.

OPAL-TINY associated with **TINY DUAL TOPAZ** modem in the rooms is an ideal solution for hotels that refuse any additional administration



- DOCSIS compliance (Software DOCSIS 2.0/DOCSIS1.1)
- Interoperability with any DOCSIS compliant cable modem is assured
- Embedded system and based on "Broadcom" advanced PHY/MAC includes a fully digital receiver supporting TDMA, ATDMA
- Smart spectre impulse noise mitigation
- Integrated up converter | Digital Edge QAM
- Downstream modulation QAM 64 / QAM 256
- DOCSIS 1.x / 2.0 mixed logical channel
- SNR computing and Pre-equalizer, Ingress cancellation
- BPI baseline privacy encryption (128 Bit DES – coding)
- Separate interfaces for port-packet and management
- SNMP and Telnet access for software upgrade and configuration
- Quality of Service provisioning
- User admission

DOCSIS 2.0 features will allow you to offer the higher bandwidth in both directions.

IGMP features will allow you to offer applications like video streaming services between cable modem subscribers and the backbone data network needing higher bandwidth.

Quality-of-Service (QoS) control will allow Cable Telephony applications (VoIP),

OPAL-TINY opens the door to dependable high-speed services for small networks. It is the best offer on the CMTS market

Draft Specifications: OPAL-TINY CMTS

RF Specification	Environmental	Security
<p><u>Downstream</u></p> <p>Bandwidth: 6MHz or 8 MHz</p> <p>Modulation: 64QAM, 256QAM</p> <p>Symbol rate: 0.88 to 6.9 MSymb/s</p> <p>Frequency Range: 88MHz to 860Mhz (Optional 37 or 44 MHz IF)</p> <p>Spectral Occupancy: 64 QAM: 0.18 SRRC 256 QAM: 0.12SRRC</p> <p>Return Loss: 14 dB</p> <p>Output Impedance: 75 oh s</p> <p><u>Upstream</u></p> <p>Modulation: QPSK, 8,16,32,64 QAM</p> <p>Error Correction: Reed Solomon</p> <p>Frequency Range: 5MHz to 65Mhz agile, in 100Hz steps</p> <p>Symbol Rate: 160, 320, 640, 1280, 2560, 5120 ksym/s</p> <p>Input Levels: -16dBmV to +26 dBmV</p>	<p>Operating temperature 0°C ~ 40°C</p> <p>Storage temperature -10°C ~ 60°C</p> <p><u>Network Management</u></p> <p>SNMP</p> <p>MIB Group: MIB II, DOCSIS MIB, Vendor-Specific MIB DHCP Relay (future) PPPoE Telnet</p> <p><u>Media-Access-Control (MAC)</u></p> <p>DOCSIS2.0, DOCSIS 1.1, DOCSIS 1.0</p> <p><u>IP Process</u></p> <p>IGMP snooping VPN transparent</p>	<p>DOCSIS Baseline Privacy (BPI)</p> <p>Software upgradeable to BPI+</p> <p><u>Power Supply</u></p> <p><u>220V/110V</u></p> <p>Maximum power 65W</p> <p><u>Network Interfaces</u> Ethernet standard (IEEE 802.3)</p> <p>Ethernet interface:</p> <ul style="list-style-type: none"> ➤ 1 x 100BaseT management