

DOCSIS 3.0 CMTS

The CORAL CMTS systems enable carriers to offer scalable, secured high speed, value-added IP services to small and middle sized cable networks, into hotels and buildings

The Damery CMTS **LINE** major aim is to allow networks operators to take benefits of the internet technology whatever the size of their network.

Using your already installed cable TV architecture, they will immediately connect their network, their hotel or their building to the Internet network using the Damery CMTS **LINE UP TO 800 MBITSEC**



16DS / 4US

ECO FREINDLY CMTS FAMILY

- **Basic configurations of CORAL 16DS/4US, Not upgradable, 2 sizes:**
 - Coral Pico: 1U x 310 x 220 mm
 - Coral Tiny: 1U x 19" x 220 mm
- **DOCSIS compliance (Software DOCSIS 3.0/2.0/1.1)**
- **Interoperability with any DOCSIS compliant cable modems is assured**
- **Embedded system based on "Broadcom" advanced PHY/MAC that includes a fully digital receiver supporting TDMA, ATDMA**
- **Smart Spectrum impulse noise mitigation**
- **Integrated upconverter | Digital Edge QAM**
- **Downstream modulation QAM 64 / QAM 256**
- **DOCSIS 1.x/2.0 mixed logical channel**
- **SNR computing and Pre-equalizer, Ingress cancellation**
- **SNMP and Telnet access for software upgrade and configuration**
- **Quality of Service provisioning**
- **User admission**

DOCSIS 3.0 features will allow you to offer the higher bandwidth in both directions.

VLAN

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

DHCP Relay, Option 82 and IP Helpers functions will allow you to accommodate with any provisioning configuration

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

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

Preliminary Specifications: CORAL CMTS

RF Specifications	Network and Security	Environmental
<p>Downstream port:1</p> <ul style="list-style-type: none"> ➤ Number of channels by port <ul style="list-style-type: none"> ○ Coral : 16 ➤ QAM modulation : Annex A, B or C ➤ QAM constellations: 16QAM, 64QAM, 256QAM ➤ Data Rates <ul style="list-style-type: none"> ○ DOCSIS : 27 Mbps @ 64 QAM, 38 Mbps @ 256 QAM ○ EuroDOCSIS : 36 Mbps @ 64 QAM, 56 Mbps @ 256 QAM ➤ Frequency range (center) <ul style="list-style-type: none"> ○ 91 to 867 MHz (standard) ○ 108 to 1002 MHz ○ (44 MHz IF) ➤ Channel width : 6 to 8 MHz ➤ Symbol rate: 0.88 to 6.9 MSymb/s ➤ Spectral Occupancy: <ul style="list-style-type: none"> ○ 64 QAM: 0.18 SRRC ○ 256 QAM: 0.12SRRC ➤ Return Loss: 14 Db ➤ Output Impedance: 75 ohms ➤ Connector F-type, 75 Ω <p>Upstream port :</p> <ul style="list-style-type: none"> ➤ Number of port: <ul style="list-style-type: none"> ○ 1 ➤ Number of channels by port : <ul style="list-style-type: none"> ○ 4 ➤ Modulation: ATDMA,QPSK, 8,16,32,64 QAM ➤ Error Correction: Reed Solomon ➤ Frequency Range: 5MHz to 65Mhz agile, in 100Hz steps ➤ Symbol Rate: 320, 640, 1280, 2560 , 5120 ksym/s ➤ Input Levels: -16dBmV to +26 dBmV 	<p>Network Management</p> <ul style="list-style-type: none"> ➤ SNMP ➤ MIB Group: MIB II, DOCSIS MIB, Vendor-Specific MIB ➤ PPPoE ➤ Telnet <p>Media-Access-Control (MAC)</p> <ul style="list-style-type: none"> ➤ DOCSIS 2.0, DOCSIS 1.1, DOCSIS 1.0 DOCSIS 3.0 <ul style="list-style-type: none"> ○ downstream channel bonding up to 16 channels ○ IPv6 for CM ➤ In development : <ul style="list-style-type: none"> ○ upstream channel bonding up to 4 channels ○ Firmware upgradable to AES encryption ➤ Load balancing ➤ Spectral Management <p>Network Interfaces</p> <ul style="list-style-type: none"> ➤ Ethernet standard (IEEE 802.3) ➤ Ethernet interface: RJ 45 connector for 1000BaseT ➤ Dual SFP fiber/copper 1GigE(Optional) <p>IP Process</p> <ul style="list-style-type: none"> ➤ IGMP snooping ➤ VPN transparent ➤ DHCP Relay Option 82 ➤ QoS ➤ LI ➤ Bridge 	<p>Environmental parameters</p> <ul style="list-style-type: none"> ➤ Operating temperature 0°C ~ 40°C ➤ Storage temperature -10°C ~ 60°C <p>Power Supply</p> <p>220V/110V Eco Friendly energy saving CMTS: Maximum power 36W</p> <p>Dimensions</p> <p>CORAL TINY :19", 1U, 22 (cm) CORAL PICO :31, 1U, 22 (cm)</p> <p>On-board WEB application</p> <p>Available on-board on all types of CMTS</p> <p>Main functions are as following:</p> <ul style="list-style-type: none"> ➤ Web access ➤ User Admission ➤ DHCP/TOD/TFTP/HTTP services ➤ CMTS configuration ➤ Flap List ➤ Checking running status ➤ Setting network interface parameters ➤ Setting RF interface parameters ➤ CM & CPE management ➤ CMTS management

Based on a strong R&D capacity and focused on cable internet solutions for small and middle sized networks, Damery offers you a complete range of DOCSIS CMTS, provisioning and monitoring software products and the most original solutions for the most competitive prices

Great Performances!



CORAL Tiny

Small, simple, for small networks up to 500 users

Sales and Service points

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