

Tiny Jade : CMTS

Tiny Topaz : Cable Modem

TINY LINE 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 you to take benefits of the internet technology.

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

TINY LINE main controller, **TINY JADE**, is a full Cable Internet head end.

It is proposed with all the tools for an internet access up to 250 rooms.

TINY JADE is a single 1U unit supplied with the 19" rack mount option. It is configured with 1 downstream channel and 1 upstream channel.

The **TINY JADE** is designed to comply with the Data over Cable Service Interface Specification (DOCSIS) 1.0, 1.1 standards. It is designed on the base of JADE-S on site experience.

Interoperability with any DOCSIS compliant cable modem is assured.

It opens the door to dependable high-speed service such as high-speed Data including controlled Quality-of-Service (QoS), Cable Telephony (VoIP), and Streaming Video services between cable modem subscribers and the backbone data network.

All Jade CMTS support Simple Network Management Protocol (SNMP) for easy administration.

In addition, the system can be managed locally or remotely using Telnet.

An integrated up converter and an integrated OSS (Operations Support System) allow you to provide the Internet in the rooms from your only one Internet access.

Onboard operation support module is customised for hotel application and allows the management of Internet access for rooms

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

TINY-JADE



- ✓ **Up to 250 users**
 - (1DS / 1 US)
- ✓ **DOCSIS / EURO DOCSIS Compliance**
 - Docsis 1.1
- ✓ **Stand alone capability**
 - Integrated up converter
- ✓ **On board Operations Support module**
- ✓ **User Admission**
(Support - Provisioned Registration)
- ✓ **Quality of Service provisioning**
 - Traffic control based, prepaid & post-paid billing
- ✓ **Remote Control**
 - SNMP and Telnet access
- ✓ **Full System Scalability**
- ✓ **Remote Configuration Management**
- ✓ **Low-cost initial deployment**
- ✓ **VPN transparency**



DUAL-TINY-TOPAZ



Specifications: Tiny-Jade

RF Specifications	Network and Security	Environnemental
<p><u>Downstream</u></p> <ul style="list-style-type: none"> ➤ Bandwidth: 6MHz or 8 MHz ➤ Modulation: 64QAM, 256QAM ➤ Error Correction: Reed Solomon ➤ Frequency Range: Optional 36.125 MHz or 44 MHz IF ➤ Spectral Occupancy: 64 QAM: 0.18 SRRC 256 QAM: 0.12SRRC <p><u>Integrated up converter option:</u></p> <ul style="list-style-type: none"> ➤ Output RF level: 50 to 60 dBmV ➤ Output frequency range: 88 MHz to 880 MHz ➤ Output Impedance: 75 ohms ➤ Return Loss: 14 dB <p><u>Upstream</u></p> <ul style="list-style-type: none"> ➤ Modulation: QPSK, 16QAM ➤ Error Correction: Reed Solomon ➤ Frequency Range: 5MHz to 65Mhz agile, in 100Hz steps ➤ Symbol Rate: 160, 320, 640, 1280, 2560 ksym/s ➤ Input Levels: -10dBmV to 0 dBmV 	<p><u>Network Management</u></p> <ul style="list-style-type: none"> ➤ SNMP ➤ MIB Group: MIB II, DOCSIS MIB, Vendor-Specific MIB ➤ DHCP Relay (future) ➤ PPPoE <p>Telnet</p> <p><u>Media-Access-Control (MAC)</u></p> <ul style="list-style-type: none"> ➤ DOCSIS 1.0 ➤ DOCSIS 1.1 <ul style="list-style-type: none"> ➤ Fragmentation ➤ Payload Header suppression ➤ Concatenation ➤ Quality-of-Service Controls High-Performance Scheduler ➤ Rule-based packet filtering upstream and downstream <p><u>Network Interfaces</u></p> <p>10/100 Base-T Ethernet (RJ45 CAT-5)</p>	<p><u>Environmental parameters</u></p> <ul style="list-style-type: none"> ➤ Operating temperature 0°C ~ 40°C ➤ Storage temperature -25°C ~ 60°C ➤ Humidity 10% ~ 90% (non-condensing) <p style="text-align: center;"><u>Mini OSS pico</u></p> <ul style="list-style-type: none"> ➤ Available on board ➤ Web access, ➤ User Admission ➤ Configuration file building ➤ Support - Provisioned Registration ➤ DHCP/TOD/TFTP/HTTP services ➤ Subscriber and modem data base management ➤ Billing option: Prepaid, post-paid traffic limited ➤ Monitoring, SNR graphs ➤ CMTS configuration <p><u>Dimensions</u></p> <p>425X35X360 mmxmmxmm</p> <p><u>Power Supply</u></p> <p>Full range switching power supply</p>

Sales and Service points

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DATA - PHONE - NETWORK

Daphne guides your first steps in Cable Internet World