

CTDI Products

9123 & 9126 Features

- Feature level can be remotely field upgraded with OpenLane NMS and upgrade keys

Diagnostic Option

- Automatic Frame Relay installation, including timeslot and LMI type sensing
- End-to-end non-disruptive diagnostics
- Alarm log
- In-band remote management
- Dual firmware banks for non-disruptive remote upgrades

SLM Option

- Real-time and historical performance reporting
- Threshold driven alarms for a wide range of parameters
- SLA reporting - Loss of Data, Class of Service, latency, availability

Application Monitor Model (9126 only)

- Monitor utilization of up to 10 user defined IP applications

iMARC 9123 and 9126 T1/FT1 CSU/DSU Solution

An Intelligent T1/FT1 CSU/DSU Solution

The iMarc 9123 and 9126 are ideal for providing customer premise termination of T1 and fractional T1 services including:

- Leased Lines
- Frame Relay/PPP access facilities
- IP networks that use Frame Relay/PPP as the layer-2 protocol
- TDM drop and insert to a DSX port (provides T1 channelized voice or data user interface) (9126 only)

With features that help sites get in service faster, stay up longer, and get repaired sooner, iMarc is built to support the most demanding enterprise network environments. iMarc provides versatility needed to adapt to changes in network technology as new services and applications are introduced.



A Flexible Next Generation Access Device

The iMarc 9123/9126 CSU/DSUs are available in two feature sets:

- Basic diagnostic feature set provides basic frame relay and diagnostic capability
- Service Level Management (SLM) provides basic features, plus reporting and monitoring

Full Service Level Management (SLM) capability can be activated in units that have the basic diagnostic feature set at any time. This is an optional feature that adds real-time and historical network performance monitoring and SLA (Service Level Agreement) reporting capabilities to your iMarc unit and network.

An Intelligent Demarcation

The iMarc® 9123 and 9126 CSU/DSUs are components in the family of intelligent iMarc access products. The iMarc 9123 and 9126 CSU/DSUs allow you to perform end-to-end service level management across a Frame Relay network and provides important benefits for large-scale deployment of frame relay service, including full diagnostic and SLM functionality, proactive and historical diagnostics, SLM software upgradeability, and critical QoS capabilities to ensure the quality of service required for each application.

Simplified Management

The iMarc 9123 and 9126 offer simplified, cost effective end-to-end network management capabilities. They provide service providers and enterprise customers the ability to verify SLAs, isolate performance problems, determine appropriate bandwidth needs, and monitor network trends to aid in future capacity planning.

Benefits

- Minimize maintenance trips with remote management, remote upgrades
- No-hassle installation
- Advanced diagnostics isolate network vs. router problems
- Catch transient problems with threshold driven alarms
- Standards-based management for direct control from any SNMP manager
- Built in diagnostic Modem for Out of Band management (9126 only)

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iMARC 9123 and 9126 Technical Specifications

WAN Interface

- 9123 + 9126
 - T1 via 8-pin RJ48
 - Line rate: up to 1536 Mbps
 - Line Framing: D4, ESF
 - Line Coding: AMI, B8ZS

DSX-1 interface (9126 only)

- T1 via 8-pin RJ48

Serial interface

- Data - 34 position V.35 (ISO 2593)

Ethernet Interface

10/100 Base-T Auto-sensing

- Auto-detection
- Protocols: TCP/IP
- IEEE 802.3

Modem Interface (9126 only)

- Via 6 position RJ11C
- Data rate: up to 14.4 Kbps
- Line Protocol: PPP, SLIP, VT-100

COM Port Interface:

- 9 position EIA-232 (9126 only)
- 25 position EIA-232 (9123 only)

Management Interface

- Telnet console management
- Full SNMP manageability
- RMON Version 1, RMON Version 2
- RFC 1213 - SNMP MIB II
- RFC 1659 - RS-232 MIB
- RFC 1573 - Interface Group Evolution
- RFC 1406 - DS1/E1 MIB
- RFC 1604 - Frame Relay Service
- RFC 2110 - Frame Relay DTE
- RFC 1757 - RMON Version 1
- RFC 2021 - RMON Version 2
- Enterprise MIB

Standards Support

- AT&T Frame Relay Service Specification
- Sprint Frame Relay Interface Specification 5136.03
- ANSI TI.606, 617, 618 Frame Relay Bearer Services and Protocols
- ITU-T Recommendation Q.933 Annex A
- ANSI TI-617 Annex D
- ITU-T Recommendation I.122/I.233
- FRF 1.1 UNI
- ITU-T Recommendation X.36

Physical Characteristics

- Stand alone (Desktop)
- 9123
 - 2.1" H x 8.7" W x 6.2" D
(5.3cm H x 22.1cm W x 15.7cm D)
 - Weight: 1.38lbs. (0.62 kg)
- 9126
 - 2.9" H x 8.5" W x 12.5" D
(7.4 cm H x 21.6 cm W x 31.8 cm D)
 - Weight: 2.95lbs. (1.33 kg)

Power

- Power supply: External 100-240 VAC 50-60Hz, auto range
- Power: 10 W max (35 BTU/hr)

Environmental Tolerances

- Operating temperature: 32F to 122F (0C to 50C)
- Non-operating temperature: -4F to 158F (-20C to 70C)
- Humidity: 5% to 85%, non-condensing

Regulatory - Compliance & Agency Approval

- These products comply with or have obtained Regulatory Agency approval at least against the following standards:
- EMC - Emission (Class A): FCC part 15
- Safety:
 - 9123: UL 1950, CSA C22.2 No 950-95
 - 9126: UL 60950-1, CSA C22.2 No 60950-1
- Telecom: FCC Part 68, IC CS-03

Warranty and Support

- One (1) year warranty

