

F A Q

Stinger® MRT

1. What is the Stinger MRT?

It's our new Stinger Micro-Remote Terminal product. It is an all-encompassing mini-DSLAM targeted for space-constrained Remote Terminals (RT) and MTU environments. It can also be used to complement new DLC installations. It is the latest addition to the Stinger product family.

2. How does the Stinger MRT fit in with the existing Stinger product line?

The MRT is an important complement to the existing Stinger family. It fills out the Stinger product line by providing a self-contained lower density platform for Remote Terminals and MTU applications. The MRT augments the Stinger RT line for Remote Terminals and the Stinger LS line for MTU applications.

3. What is a Remote Terminal?

A Remote Terminal is a site outside of the Central Office that a service provider will use to provide services to subscribers. An RT is generally associated with a DLC deployment. A DLC system uses digital loop electronics to provide services such as POTS to minimize outside plant facilities costs, i.e., pair-gain. Older DLCs used legacy carrier systems such as T-Carrier on copper. Today, DLCs are all fiber optics based.

A Remote Terminal can be any one of the following:

- Controlled Environmental Vault (CEV)
- Controlled Environmental Cabinet (CEC)
- Hut
- Customer Premises
- Outside Plant Cabinet

4. What's the physical description of the Stinger MRT?

It's a "pizza box" with dimensions of 1U (1.75″) by 21.5″ (23″ rack) by 10.5″ (12″ with cabling).

5. What type of DSL does it support?

It currently supports ADSL. Future plans include SHDSL and VDSL.

6. What is the port density of the Stinger MRT?

The Stinger MRT has 36 ADSL ports supporting both full-rate and G.Lite.

7. Does the Stinger MRT have DC and AC power supply?

The Stinger MRT has DC power only. Future models will include AC power options.

8. Does it support ATM?

Yes, at the heart of the MRT is an ATM switching fabric used to support ATM functions and features.

9. Is the Stinger MRT "environmentally hardened" to support Outside Plant Cabinet deployment?

Yes. The MRT is designed with industrial components to operate in a temperature range of -40°C to 65°C (-40°F to 149°F).

10. How does the MRT work with existing DLC?

The POTS lines from the DLC can be plugged directly into the Stinger MRT. The MRT provides ADSL services over these POTS lines directly to the subscriber.

11. How are POTS lines supported?

The MRT has integrated splitters to support POTS access.

12. What types of applications does the Stinger MRT support?

The Stinger MRT supports high-speed data and internet access, Voice over DSL (VoDSL), and Video over DSL. Essentially, the MRT supports the same applications as the larger Stingers.

13. How does it support Voice over DSL (VoDSL)?

The Stinger MRT supports ATM QoS parameters for UBR, VBR-NRT, VBR-RT, and CBR traffic.

14. What type of network interfaces does the Stinger MRT support?

The Stinger MRT supports the following modular cards: OC3c/STM1, DS3, and T1/E1 IMA.

15. Does it have cascading and subtending capabilities?

Yes, local cascading of MRTs can be supported with the on-board STS3 ports. MRTs can be remotely subtended via trunk module ports.

16. Given the potential space limitations in a Remote Terminal, is there any installation flexibility for the MRT?

Yes, the MRT has several mounting options. It can be mounted horizontally, vertically, and on a wall such as, a backboard in a telco closet. All that is required is 1U of space. The Stinger MRT can literally be placed into any free space along the sides, top, or bottom of an outdoor cabinet.

17. Are cards from other Stinger units (i.e. Stinger RT) compatible with the Stinger MRT?

No, other cards are not compatible with the Stinger MRT. The MRT, although functionally the same as the larger Stingers, is a brand new form factor.

18. Does the MRT support the same features as the larger Stingers, i.e., ATM capabilities and redundancy?

Yes. The MRT uses the same Stinger specific ATM ASICs to provide complete ATM standards based switching capabilities. It supports full ATM QoS. Traffic parameters supported include UBR, VBR-nrt, VBR-rt, and CBR. So, the MRT is also capable of supporting SLAs for services provided.

The MRT is a non-redundant platform. However, using its inherent ATM switching capabilities, 1:1 protection can be provided on the network side.

19. Does the Stinger MRT also support enhanced features such as PNNI, and integrated testing?

Currently, the MRT does not support PNNI or integrated testing.

20. Is it interoperable with existing non-Lucent CPE modems?

Yes, it supports the G.DMT standard for ADSL.

21. What type of network management is available?

Lucent's NavisAccess provides network management as an option. Additionally, Stinger MRT supports standard SNMP MIBs.

22. Is there a provisioning feature and is it customizable?

Provisioning is optionally available from the Navis suite of products. SNMP MIBs are also available for other provisioning systems.

23. Is it NEBS compliant?

Yes, NEBS 1-3.

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