

# Release Note

<b>Date:</b> 11/07/01	<b>Model(s)</b> DL1200, DL1220, DL1240, DL8000
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## Equipment Ventilation

### Introduction

The Artel DigiLink products listed above are designed to be installed in central office (CO) environments and rack mounted in equipment racks or cabinets. Each unit can be mounted in a standard 19 inch rack, but mounting in a 23 inch rack can be accommodated with the use of an optional rack mount adapter.

This document provides additional equipment rack mounting recommendations not currently found in the various product Installation and Operation Guides. The recommendations described here will help prevent the units from overheating and ensure trouble-free operation of the units.

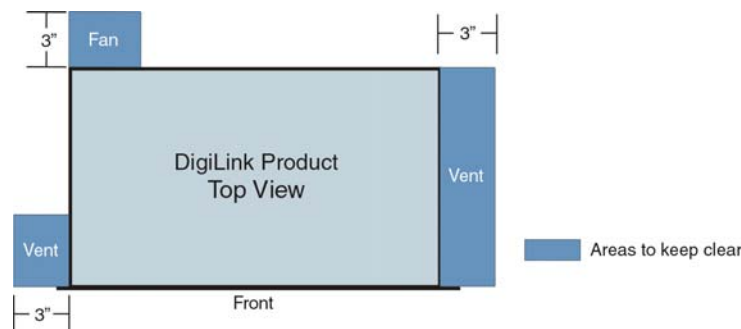
### Vertical Spacing

The units are housed in enclosures that are either 1RU (DL1200, DL1220, DL1240) or 2RU (DL8000) in height. In general, it is permissible to mount units without leaving a space between adjacent units. However, in racks with poor ventilation (low air flow) or operating at high temperatures, *heat density considerations may make it necessary to leave a 1RU space between units*. Operation in an ambient environment (within the rack) of over 40 degrees Celsius for extended periods of time is not recommended.

### Cooling

The DigiLink products use forced air convection cooling as the primary means of cooling the device. Cool ambient air is drawn through the unit by a single axial fan integral to the unit. (The DL8000 also has an internal backup fan that is activated when the device overheats or the primary fan fails.) It is important that the rack be well ventilated or provided with forced air within the rack to avoid re-circulation of air through the unit.

The following figure shows the position of the fan and ventilation openings. Care must be taken not to obscure these items with cables, mounting hardware or other items that may obstruct normal airflow through the unit. In general, allow 3 inches of clearance around the sides and rear of the unit.



## Heat Load

The total maximum power dissipation for the Digilink products is as follows:

- DL1200/DL1220/DL1240: 55W, which is equivalent to approximately 190 BTU/hr
- DL8000: 110 W, which is equivalent to approximately 400 BTU/hr

When sizing the cooling requirements for a rack, the total heat output of the equipment in the rack should be used. For example, the approximate total heat output of fifteen DL1220 units installed in a single rack would be:

$$15 \text{ (units)} \times 190 \text{ (BTU/hr per unit)} = 2850 \text{ BTU/hr}$$

## Contact Artel

Contact Artel's Technical Support department should you have any questions concerning the content of this document.

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