



# TECHNICAL BULLETIN # 102

## Using PIKA Daytona Cards with -24V Power Supplies

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**Software Version:** N/A

**Product(s):** Daytona POTS (station) cards with SLIC modules rev B.2 and later

**Purpose:** Describes the effects of using a Daytona POTS card with a -24V power supply

A Daytona card with SLIC modules rev B.2 and later is able to fully operate using a -24V power supply instead of a -48V power supply. Using a -24 V supply would decrease the amount of heat dissipated by the modules on the card, thus reducing the heat inside the PC. The lower battery voltage results in the maximum allowable loop length being reduced.

### *Battery Power*

Battery Voltage	Per Line Loop Current Limit Power Consumption	Battery Power Dissipation
- 48 V	30mA	1.44 W/line
- 24 V	30mA	0.72 W/line

### *Loop Length*

Battery Voltage	Loop Length (feet) with Phone Resistance of 250 ohms	Loop Length (feet) with Phone Resistance of 400 ohms
-48V	19403	17714
-24V	5890	4200

Maximum Loop Length (@ 68° F, 26AWG)  
Loop Resistance per 1000' = 88.8 ohms

**Note:** Loop length means the maximum length of phone wire going from the card to the telephone.