



## TN0008 Series 4100 Power Requirements

TN0008 22 August, 2007

### Purpose:

This TechNote describes the input power requirements and power supply options for the Ctek Series 4100 product line.

### Series 4100 Models Covered:

**M4100S** (old style) – Series 4100S units having a serial number of 050320036-0100 or lower. These units may be easily identified by the three (3) Red LEDs next to the DB9 serial connector. See Figure 1

**M4100S** (current production model) - Series 4100S units having a serial number of 0504038001 or higher. These units may be easily identified by the Green, Yellow, and Red LEDs next to the USB connector. See Figure 2

**M4100E** (all) - These units may be easily identified by the four (4) RJ45 Ethernet connectors on the back. See Figure 3.

### Input Power Requirements

The **old style SkyRouter model 4100S** (serial number 050320036-0100 or lower) is capable of operating on either a 12-volt AC or 12-volt DC source. Standard product was shipped from the factory with a 12-volt AC power supply that connected to pins 7 and 8 of the green input connector. For installations requiring a DC supply pins 7 and 8 could also be powered with a 12 volt DC source supplied by the customer. For this model the input power connections were not polarity sensitive. Figure 1 shows the power connections for an old style 4100S.

**Note – The layout of the green input connector on the current production 4100S is different than the layout used on the old style 4100S. See the diagrams included below.**

The **current production model 4100S** (serial number 0504038001 or higher) may only be powered with a 12-volt DC source connected to pins 1 and 2 of the green input connector. This is a polarity sensitive connection requiring that the positive (+) side of the supply source be connected to pin 1 and the negative (-) side of the supply source be connected to pin 2. On the factory supplied power supply the positive lead is marked with a white stripe. Figure 2 shows the power connections for the current production 4100S.

**Warning – Do not connect the 12-volt AC supply supplied with the old style 4100S to a current production 4100S or any 4100E. Connecting an AC voltage source to either of these models may cause severe damage.**

The **model 4100E** may also only be powered with a 12-volt DC source connected to pins 1 and 2 of the green input connector. This is a polarity sensitive connection requiring that the positive (+) side of the supply source be connected to pin 1 and the negative (-) side of the supply source be connected to pin 2. On the factory supplied power supply the positive lead is marked with a white stripe. Figure 3 shows the power connections for the current production 4100E.



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### Old Style Model 4100S

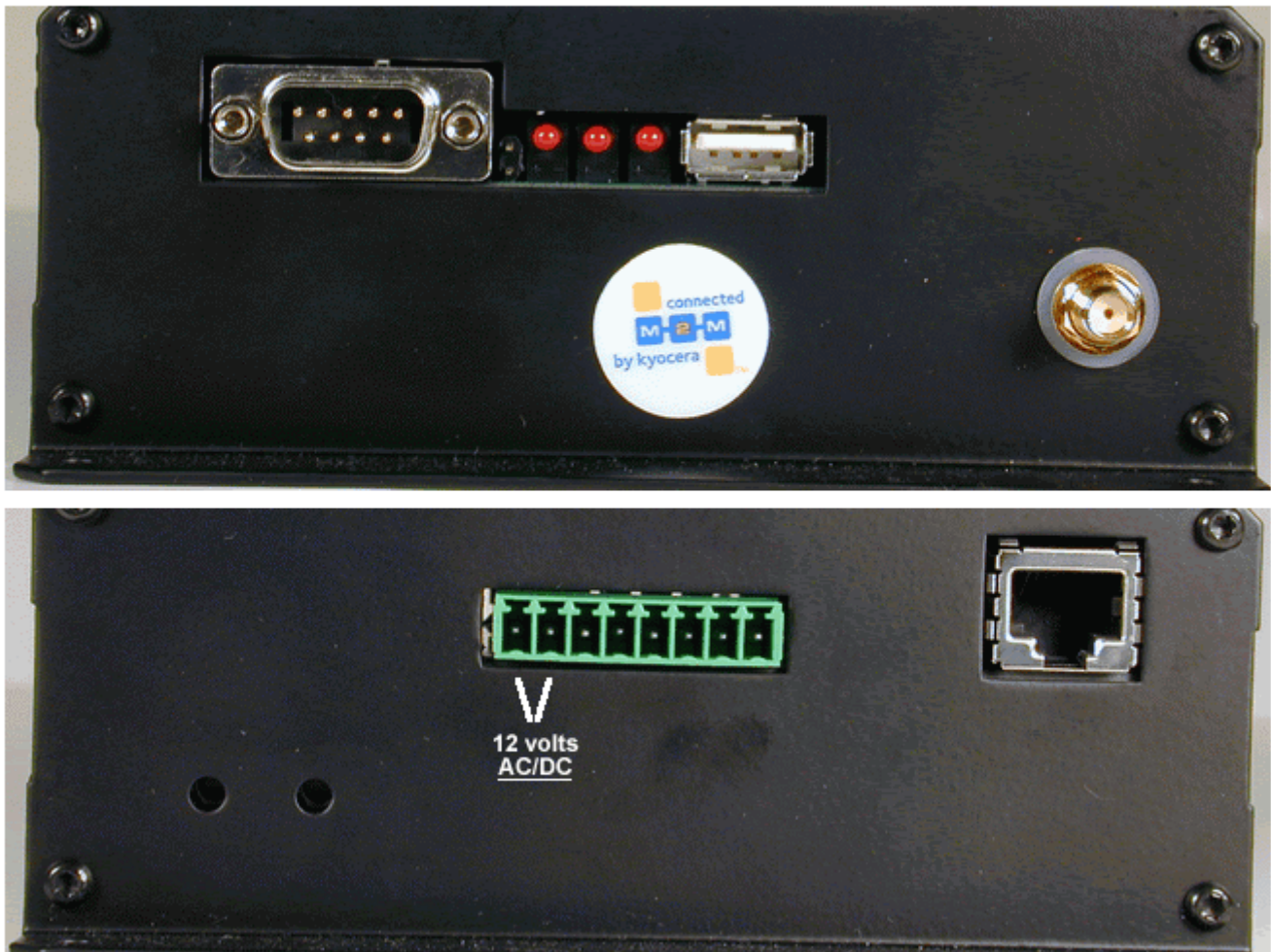


Figure 1

Old style Model 4100S SkyRouters may be powered by either 12 volts AC or 12 volts DC on pins 7 and 8 of the green input connector. The units shipped with a 12 volt AC supply that **should not be used** with Model 4100E or current production Model 4100S.



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### Current Production Model 4100S



Figure 2

Current production Model 4100S SkyRouters may only be powered by 12 volts DC on pins 1 and 2 of the green input connector. **Do not** use the AC power supply provided with old style Model 4100S units to power this Model.



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### Model 4100E



Figure 3

Model 4100E SkyRouters may only be powered by 12 volts DC on pins 1 and 2 of the green input connector. **Do not** use the AC power supply provided with old style Model 4100S units to power this Model.