

Centellis 2000 DC 1.2 Quick Start Guide

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1 Box contents

Make sure you receive all items of your shipment:

1. One Centellis 2000 AdvancedTCA shelf
2. Software CDs:
 - ATCA-MF105 firmware
 - BBS (Centellis 2000-DC-TS/PPE/FP only)
3. One printed copy of Quick Start Guide (this document)
4. One printed copy of Safety Notes Summary



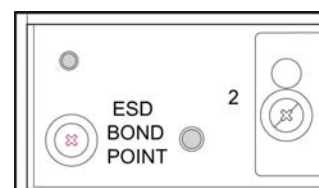
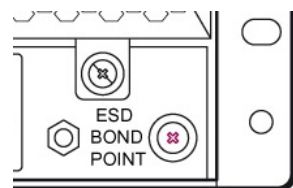
When installing or servicing the system or accessories, strictly observe the safety precautions in the *Safety Notes Summary*. Ignoring these instructions can void the system warranty and cause personal injury or property damage.

2 ESD

Use ESD protection



Electrostatic discharge and incorrect installation or removal of the card can damage circuit or shorten its life. Use a properly grounded ESD wrist strap or work in an ESD-safe environment. Connect to the ESD Bond Point connector at the front or the rear of the system.



3 Site preparation

1. Make sure that all environmental and power requirements defined in the *Centellis 2000 DC 1.2 Installation and Use* manual are met.
2. Remove all items from the box.
3. Provide the following cables:
 - Earth grounding cable with a two-hole lug, distance 5/8" (15.9mm)
 - Two power input cables with a minimum cross section of 25mm², AWG12
 - Ethernet cable for connecting the shelf manager

4 Mount shelf in rack

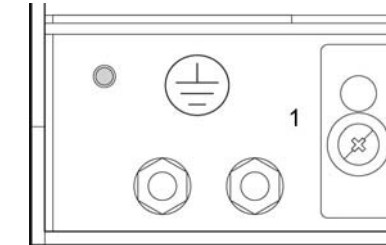
1. Insert the shelf into a 19" ANSI rack.
2. Fasten the shelf to the rack via the mounting brackets using two bolts or screws (minimum 6mm [0.24"] in diameter) on the left side and two on the right side of the shelf.

5 Install RTMs and node blades

1. If the shelf is not equipped with rear transition modules (RTMs) and node blades, install these units.
2. Cover remaining openings with filler blades.

6 Ground the system

1. Connect the rack ground lug to the shelf ground lugs at the bottom left rear of the shelf. The shelf ground lugs are marked with the corresponding grounding symbol:



2. Torque the shelf ground lug nuts to maximum of 2.0 Nm.
3. Connect the shelf permanently to the earth ground of the building.

7 Connect to power feed

1. Make sure that both PEM breakers of the shelf are in the OFF position.
2. Make sure that the external power feeds you plan to attach are powered off and cannot be switched on while you are working.
3. Remove the insulation from the ends of the power cables.
4. Crimp the ends of the power cables.
5. Loosen the screws on both sides of the pluggable screw terminals and remove the terminals from the rear of the shelf.
6. Insert the crimped ends of the power cables to the rectangular openings (3.5mm x 3.5mm wide) of the pluggable screw terminals—observe the correct orientation: -48V and Return—and fasten the screws at the bottom of the pluggable screw terminals.
7. Plug the screw terminals to the power connectors and fasten the screws on both sides of the terminals.
8. Turn on the feed power.



8 Power up the system

Make sure that the system has been located in a place with room temperature for at least 24 hours before powering it up.

Perform the following steps for both power entry modules:

1. Check the LEDs on the front of the module. Make sure that the Reverse LED (red) is off and that the In LED (green) is on.
2. Switch on the breaker.



9 Connect to shelf manager

Establish a network connection to the active shelf manager:

1. On the rear of the shelf, plug the network connector in the MGMT ETH jack of the MF105 whose yellow ACT LED is lit.
2. Access the shelf manager via its default IP address using telnet or SSH, user name and password: root.

The default IP addresses are as follows:

ATCA-MF105	IP Address
Left ATCA-MF105	192.168.0.8
Right ATCA-MF105	192.168.0.9
Active ATCA-MF105	192.168.0.171
Standby ATCA-MF105	192.168.0.181

10 Set shelf geographical and IP addresses

1. Set the shelf geographical address as required. The default shelf geographical address is 0.
2. Change the shelf manager IP-addresses if required. For more information, see the *Centellis 2000 DC 1.2 Installation and Use* manual.
3. Define the IP addresses of the node blades. There are no predefined IP addresses for the node blades.

For more information, see the documentation of the respective blade.

11 Boot the node blades

Boot the node blades via the network connection. For details on the boot process, see the documentation of the respective blade.

12 Check for firmware upgrades

Before putting the system into operation, SMART Embedded Computing recommends to check for firmware upgrades.

Install the latest firmware upgrades.

For more information, see the *Centellis 2000 DC 1.2 Installation and Use* manual.

Technical Assistance

For technical assistance or to report product damage or shortages, contact your local SMART Embedded Computing sales representative or visit <https://www.smartembedded.com/ec/support/>.

Get More Information



For more information on this product, see the *Centellis 2000 DC 1.2 Installation and Use* manual and other related technical documentation, which can be found by using the Documentation Search at <https://www.smartembedded.com/ec/support/>.



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