

Cardnest CN4



The Cardnest CN4 is family of concentration units for the different types of OneAccess equipment.

CARDNEST CN4

The family is constituted of one 19" rack-mountable device and two desktop units. The 19" rack-mountable system (Cardnest CN4) is equipped with 15 card-slots, 30 interface-slots and 2 power-slots. It provides a high-density solution for the OneAccess equipment with densities of up to 30 to 60 modems in one nest (depending on the modem type). Interface plug-in modules (maximum two per card-slot position) are plugged into the available interface-slots on the back of the CN4. A high-speed management bus permits the management of all the equipment installed in the CN4. For this purpose an Orchid controller card can be mounted in the chassis. Since the high-speed management bus can be cascaded over several cardnests, one single controller card can control up to seven cardnests and all the remotely connected equipment. The CN4 cardnest is designed to provide full power redundancy and to generate the required alarms to the management system should one of the power sources fail. The cardnest is also equipped with an output for local alarm generation.

The first desktop system (Desktop CN4/4 slots) offers the same features as the rack-mountable system. However it comes as a compact desktop unit with 4 card-slots, 8 interface-slots and 2 power-slots.

The second desktop system (Desktop CN4/2 slots) is a compact low-cost system with 2 card-slots, 4 interface slots, and an integrated dual power supply.

All CN4 systems are designed to be directly powered at -48 Vdc. In this case no additional power module is required (no CN4 power slots are used). -48 Vdc is directly routed to each card in the system. When the Cardnest CN4 of the Desktop CN4/4 slots is powered at 230/115 Vac, one or two 230/115 Vac power modules may be inserted in the available power slots. These power modules can work in full power redundancy and allow hot swapping in case of power problems.



Cardnest CN4 / 4 slots



Cardnest CN4 / 2 slots

FEATURES AND BENEFITS

- High-density cardnest family for OneAccess equipment
- Up to 60 modems in one cardnest
- All cards hot swappable
- 19" rack-mountable and desktop versions available
- 48 Vdc or 230/115 Vac powering with optional redundancy
- All connections (lines, power & interfaces) on the rear of optimal rack cabling

CARDNEST CN4 SPECIFICATIONS

CN4 Family overview

	Cardnest CN4	Desktop CN4/ 4 slots	Desktop CN4/ 2 slots
Height	6U (270 mm)	6U (270 mm)	82 mm
Width	19" (482 mm)	170 mm	353 mm
Depth	350 mm	350 mm	325 mm
Weight (empty)	6,1 kg	4,5 kg	3,2 kg
Number of card-slots	15	4	2
Number of interface-slots	30	8	4
Number of line pairs/ card-slot	4	4	4
Direct +/- 48 Vdc power- ring	yes	yes	yes
230/115 Vac power supply	no	no	yes
230/115 Vac power-slots	2	2	-
48 Vdc connector	screw	screw	screw
230/115 Vac connector	IEC	IEC	IEC
Line Connectors	screw	screw	screw
Local alarm contacts	2 x RJ45	2 x RJ45	no
High-speed mgt connectors	2 x RJ45	2 x RJ45	no
Station Clock input	RJ45	RJ45	no

Local Alarm Contacts (not on desktop CN4 / 2 Slots)

Two RJ45 connectors with tension-less contacts are provided to connect a local alarm device. They may be daisy chained to group the local alarm for more than one cardnest. The connectors include contacts for:

- Major alarm
- Minor alarm
- Power fail alarm

Station clock input (not on desktop CN4 / 2 slots)

Some cards in the CN4 can accept a centrally provided station clock. This 2 Mbps clock can be connected using a RJ45 connector and complies to G.703, 120 Ohm.

High-speed management connectors (not desktop CN4/ 2 slots)

Two RJ45 connectors are provided to connect the CN4 with the orchid controller card or to daisy-chain different cardnests when more than one nest is located at the same site. (cable delivered with the CN4)

Power Requirements

- 230 / 115 Vac Operating Range:
 - 230 Vac +/- 10% 50-60 Hz
 - 115 Vac +/- 10% 50-60 Hz
- 48 Vdc Operating Range: 36 Vdc - 72 Vdc

Sales Code

- > 142189 Cardnest CN4
- > 163459 Desktop CN4 / 4 slots
- > 167992 Desktop CN4 / 2 slots
- > 142187 Blanking Modemslot CN4
- > 142188 Blanking PWR Mod CN4
- > 142449 Blanking intf slot CN4

SALES CODES POWER MODULES (for cardnest CN4 and desktop CN4 / 4 slots)

- > 142190 PWR Mod 220 / 110 V CN4 80 W
- > 143678 PWR Mod 220 / 110 V CN4 300 W

