◭MIRACLE
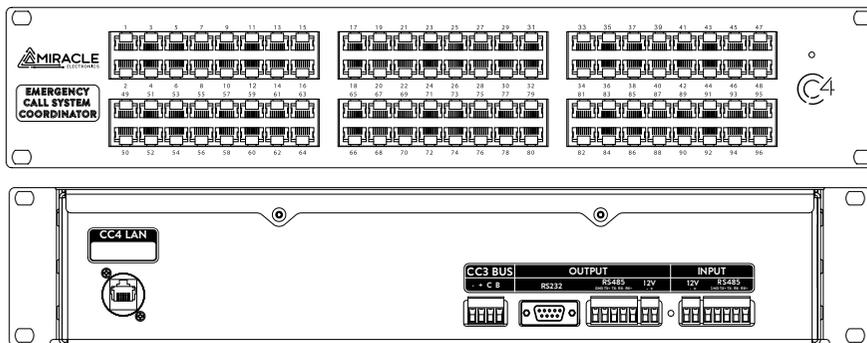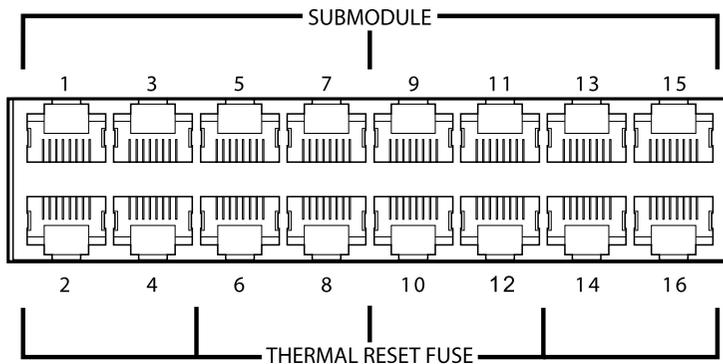## ELECTRONICS

CARECALL4 COORDINATOR

INSTALLER QUICK GUIDE

IMPORTANT

- ⊘ DO ensure installation environments are kept appropriately cool to avoid thermally resetting fuses from tripping or other, more permanent, damages.
- ⊘ DO maintain RJ45 standard wiring conventions (T568A preferred).
- ⊘ DO ensure RTLS enabled systems have individual distribution lines logically dispersed across Coordinator Hub Submodules to evenly weight traffic.
- ☒ DO NOT cross-connect Coordinator Hub Module ports.
- ☒ DO NOT interconnect Coordinator Hub Modules with general computer network equipment.
- ☒ DO NOT uplink any third-party products to Coordinator Hub Modules.

- ☒ DO NOT interconnect devices or systems to the rear serial RS-232/485 ports or CC3 port unless instructed by Miracle Electronics.
- ☒ DO NOT overload Coordinator Hub Module ports with excessive serial device sequences, for safe system delivery and performance reasons.
- ☒ DO NOT perform works on distribution lines that are connected to live Coordinators.
- ⚠ CAUTION when connecting to Miracle Electronics power supplies - ensure you are connecting to 12VDC.
- ⚠ CAUTION when connecting auxiliary devices that are supplied 12VDC from interconnection to CareCall4 Call Points to be mindful of UTP cabling voltage drop limitations.

SUBMODULE

1 3 5 7 9 11 13 15

2 4 6 8 10 12 14 16

THERMAL RESET FUSE

INSTALL STEPS

- Each CareCall4 Coordinator requires SOF-20433/4 licensing for uplink to CareCall EDGE Servers. Ensure the server is licensed for all Coordinators.
- A Miracle Electronics 12VDC PSU is needed per 96-Port Coordinator.
- All CareCall4 Coordinators require 2 units of rack capacity.
- Install structured cabling to each area of care / named location and serial downlink to other Care-Call master devices.
- Distribution lines from Coordinators to CareCall4 devices are recommended to use a design length of 90m to the primary device with a total subsequent device downlink length of an additional 25m to sustain 1 x CareCall4 Over-Door Light with 6x CareCall4 Master Call Points. Distribution lines may use cable lengths that exceed the 90m guidance, if required by site topology, as long as the minimum operating voltage for all connected devices is maintained.

- Terminate structured cabling to patch panels at the distribution frame.
- Terminate RJ45 plugs at CareCall4 devices.
- Required line testing is continuity only. Cable testers with storage memory are preferred for commissioning documentation but TIA/EIA test limit pass results are not required.
- Uplink CareCall4 Coordinators to the Nurse Call LAN via the rear "CC4 LAN" RJ45 connector.
- Connect 12VDC power from Miracle Electronics power supplies to the rear "INPUT | 12V" terminal.
- Patch distribution lines at patch panel to Coordinator Hub Module ports one at a time.
- Monitor Over-Door Light line-fault detection patterns when livening and testing distribution lines.

CC4 LAN

CC3 BUS	OUTPUT			INPUT	
- + C B	RS232	RS485 GND TX+ TX- RX- RX+	12V - +	12V - +	RS485 GND TX+ TX- RX- RX+