

iCCU-S2: Intelligent Central Control Unit for Shelf Mount



The iCCU-S2 replaces the iCCU-S and is designed to work with all style cabinets as the intelligent control unit for Polara’s iN2/iNS2 accessible push button stations (PBS). The system includes an interconnect board (PN: iN2-ICB sold separately) to facilitate connection of up to 16 PBS. Each PBS connects via two wires in parallel, and do not have a polarity requirement. A 2-wire BUTTON-PLC-CABLE is included with each unit and is used to connect the iCCU-S2 to the iN2-ICB.

This model utilizes four separate cable assemblies (A/B/C/D) to provide all the features/functions of the legacy 50 pin cable harness, allowing selection of just the features needed, at reduced cost. If just standard functions are needed, only Cables A and C are needed. For Preemption, Cable B is needed. For General Purpose Input functions, Cable D is needed.

This model also supports SDLC communication in TS1 and TS2 cabinets when a TS2 controller operating in TS2 mode, with an MMU, is utilized (**there must be an MMU**). If **just** PED Walk/Don’t Walk interval information is communicated by SDLC, just Cable C would be needed. If both PED interval information and call placements are communicated through SDLC, Cables A and C would not be needed. The included CABLE-C-LG is necessary to ensure proper grounding when using the iCCU-S2 in this BIU mode. Cables B and D would only be needed if Preemption or General Input functions are needed.

The iCCU-S2 front panel includes a backlit LCD for displaying system status information. Front panel buttons are used during setup, placing test calls, and to enable Wi-Fi. All setup functions can be performed via Ethernet or Wi-Fi using a PC. Setup and configuration is also supported using an iPhone, iPad or Android device via Wi-Fi. In addition, configuration via Bluetooth is supported by pairing with any connected PBS using a PC with an iN-DGL (purchased separately), or iOS/Android mobile device. All of the connection options provide full access to setup and configuration options of both the iCCU-S2 and all connected PBSS. Polara provides free apps for Windows PCs (Windows 7+), iOS (9.0+) devices, and Android (5.0+) devices.

Multiple configurations are supported, with the ability to change operational features based on time of day. General purpose inputs are available for options such as voice message on emergency vehicle preemption. The system has downloadable internal conflict monitoring and health log data capture that contains extensive status/fault reporting. Remote Monitoring can be done over Ethernet.

Optional SDLC:

- PN: iN2-SDLC-YCABLE for 4 ft “Y” cable (order separately if needed)
- PN: iN2-SDLC-CABLE for Straight Cable (order separately if needed)

Ped Walk / Don’t Walk Inputs (from load switches):

Optically isolated 80-150 Volts AC/DC, 5 mA max.

Ped Call Outputs (to traffic controller):

Optically isolated 36 Volts AC/DC peak
300 mA Solid State Fused Contact Closure

PBS Power Output:

Nominal 24 VDC, Short Circuit Protected - Auto Recovering

General Purpose Inputs:

10-36 Volt AC/DC peak, 10 mA max, Optically Isolated

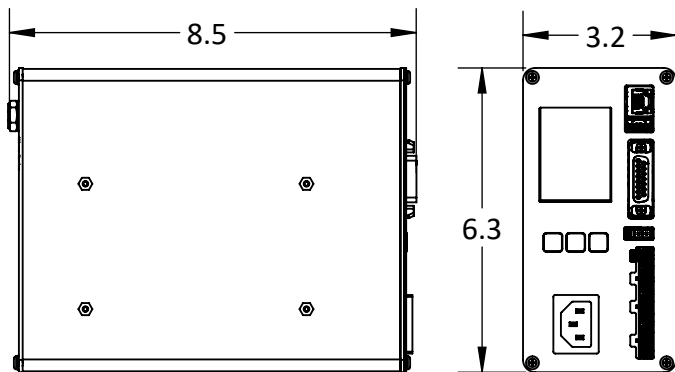
Environmental:

Operating: -34 °C (-29 °F) to +74 °C (+165 °F) - LCD temperature range is limited to -20 °C (-4 °F) to +70 °C (158 °F)
Storage: -45 °C (-49 °F) to +85 °C (+185 °F)

Regulatory:

The iCCU-S2 uses a UL 62368-1 certified power supply, Certificate Number: UL-US-2135910-0

Warranty: 3 year limited



Dimensions are in inches.