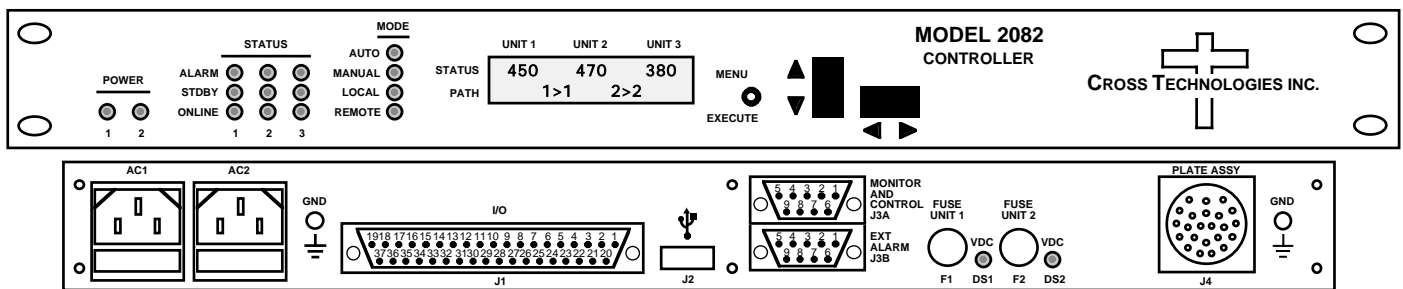


## 2082-14XX Redundant Unit Controller

The Model 2082-14XX Redundant Unit Controller is used to monitor and control amplifiers (LNA, SSPA, etc.) configured in 1:1 (-141) or 1:2 (-142) redundancy. Front panel LEDs indicate power, status (online, standby, alarm), and mode (auto, manual, local, remote). Up to 600 ma is available to power each amplifier and +26 VDC is provided for 1:1 (2.5A) or 1:2 (5A) waveguide switch drive. Multi-function push button switches select Auto, Local, or Remote operation, priorities for 1:2, and the signal path in the Manual mode. Remote operation via the RS232/RS485 M&C interface allows selection of priorities (1:2) and the signal path. Contact closure to ground inputs allow selection of the signal path, Local/Remote, and Auto/Manual Modes. An LCD display shows each amplifier's current, and signal path. Form C relay contact closures indicate amplifier and power supply status, waveguide switch position, Auto, Remote, and Manual operation. Connectors are DB37 for contact closure I/Os, MS3112E16-23S for the amplifier plate signals, and DB9s for monitor and control and auxiliary external contact closure alarm inputs. The 2082-14XX is housed in a 1RU chassis and is powered by redundant power supplies fed by separate, fused 100-240  $\pm$ 10% VAC AC input connectors.



**Front and Rear Panels (-142)**

### EQUIPMENT SPECIFICATIONS\*

#### Switch Drive Characteristics

Fault detection time	50 ms max
Total Switchover time	100 ms max, based on switch specifications
Drive Voltage	26 Volts, 2.5A ( for -141), 5A (for 142)

#### Alarm and Control, M&C

Alarm input signal	Closure to ground indicates alarm
Alarm input voltage	+15 VDC max., can sink 20 ma max
Alarm output signal	Form C relay: 100VDC, 0.5A, 3W max
M & C Interface	RS232C or RS485, selectable
M & C Signal	9600 baud rate, no parity, 8 data bits, 1 start bit

#### Controls, Indicators

Mode Select	Local/Remote, Auto/Manual - push-button switches, contact closures, or remote selection
Power On Status	Green LEDs, (PS1, PS2), External Form C contact closure, M&C serial
Remote Select Status	Yellow LED, External Form C contact closure, M&C serial
Manual Select Status	Yellow LED, External Form C contact closure, M&C serial
Alarm Status	Red LEDs , External Form C contact closure, M&C serial (for amplifiers, Ext. and Summary alarm)

#### Connectors, Other

Parallel I/O Connector	DB37, female
Ext. Alarm	DB9 (female)
M&C Connector	DB9 (female)
Amp Plate Connector	MS3112E16-23S
Size	1 RU, 19 inch standard chassis 1.75" high X 16.0" deep
Power	Redundant 100 - 240 $\pm$ 10% VAC, 47 - 63 Hz, 100 W max. power supplies

#### Models

2082-141	1:1 Redundant Unit Controller
2082-142	1:2 Redundant Unit Controller

\*10°C to 40°C; Specifications subject to change without notice