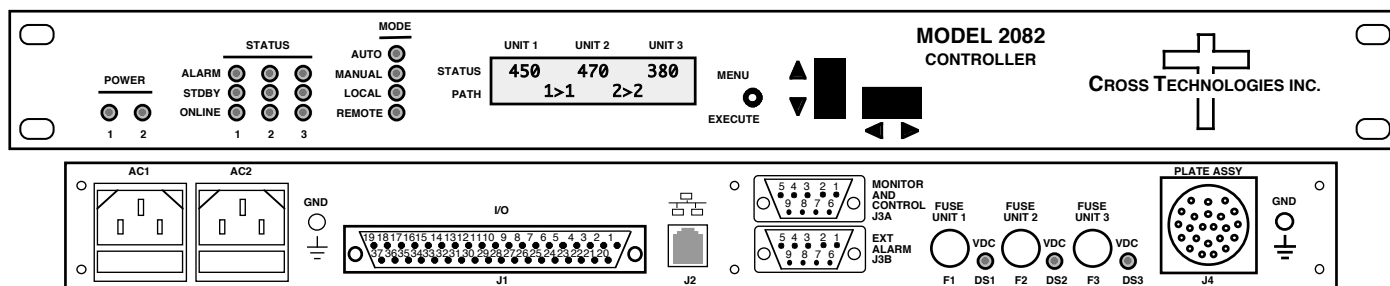


## 2082-14X Redundant Unit Controller, 26 or 47 Volt Switch Drive

The Model 2082-14X Redundant Unit Controller is used to power, monitor and control LNA or LNB amplifiers configured in 1:1 (2082-141) or 1:2 (2082-142) 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 or 47 VDC for -47 version is provided for 1:1 (3A) or 1:2 (3A) waveguide switch drive. The Model 2082-141 has 26 or 47 volt common and the 2082-142P has ground common. LNA or LNB current is measured and a fault is signaled if the current deviates from user selected thresholds. Multi-function 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. Ethernet is available as option, -W8, -W18, or -W28. Contact closure to ground inputs allow selection of 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 2082-14X 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 (2082-142 shown with optional Ethernet)

### EQUIPMENT SPECIFICATIONS\*

#### LNA/LNB Power

**Output Voltage/current** +15  $\pm$  1 Volts/ 0.6 amps max, each unit  
**Number powered** 2 ( for -141), 3 (for -142)

#### Switch Drive Characteristics

**Fault detection time** 50 ms max  
**Total Switchover time** 100 ms max, based on switch specifications  
**Drive Voltage** 26V, 3A ( for either -141 or -142)  
**Drive Voltage** 47V, 3A ( for either -141-47 or -142-47)

#### Alarm and Control, M&C

**Alarm output signal** Form C relay: 100 VDC, 0.5A, 3W max  
**M & C Interface** RS232C or RS485, selectable, Ethernet Optional  
**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, 150 W max. power supplies

#### Models

<b>2082-141</b>	1:1 Redundant Unit Controller, +26 VDC common	<b>2082-141-47</b>	1:1 Redundant Unit Controller, +47 VDC common
<b>2082-142</b>	1:2 Redundant Unit Controller, +26 VDC common	<b>2082-142-47</b>	1:2 Redundant Unit Controller, +47 VDC common
<b>2082-141P</b>	1:1 Redundant Unit Controller, ground common	<b>2082-141-47P</b>	1:1 Redundant Unit Controller, ground common
<b>2082-142P</b>	1:2 Redundant Unit Controller, ground common	<b>2082-142-47P</b>	1:2 Redundant Unit Controller, ground common

#### Remote M&C Ethernet Options

**W8** - Ethernet w/web browser Interface  
**W18** - Ethernet; w/WB & SNMP (w/MIB)  
**W28** - Ethernet w/direct TCP/IP Interface  
**W828** - Ethernet W8 + W18 + W28

#### Other Options

**W114** - Contact Closure Alarm LNA Inputs  
**W1318-1** 13/18vdc LNA Switching, for 2082-141  
**W1318-2** 13/18vdc LNA Switching, for 2082-142

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