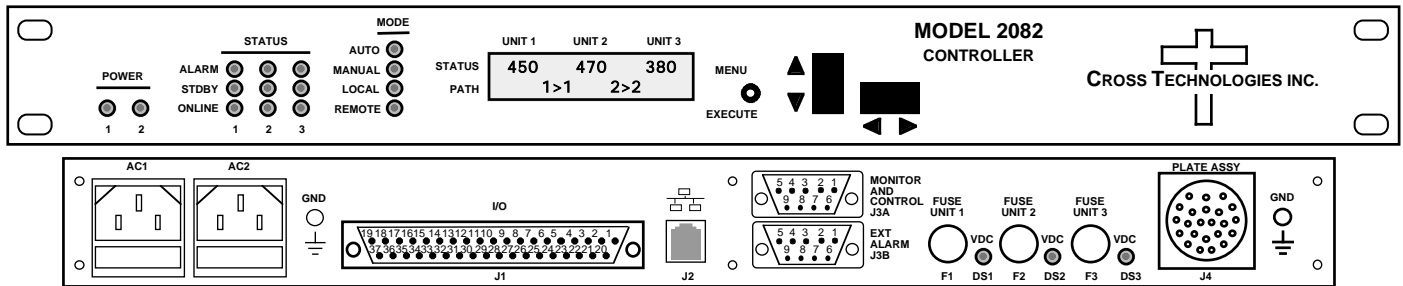


## 2082-14X-47 Redundant Unit Controller, 47 Volts Switch Drive

The Model 2082-14X-47 Redundant Unit Controller is used to power, monitor and control **LNA or LNB** amplifiers configured in 1:1 (2082-141-47) or 1:2 (2082-142-47) 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 **+47 VDC is provided for 1:1 (3A) or 1:2 (3A)** waveguide switch drive. **The Model 2082-14X-47 has +47 volts common and the 2082-14X-47P 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-47 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 (2082-142-47 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** **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

**2082-141-47** 1:1 Redundant Unit Controller, +47 VDC common  
**2082-142-47** 1:2 Redundant Unit Controller, +47 VDC common  
**2082-141-47P** 1:1 Redundant Unit Controller, ground common  
**2082-142-47P** 1:2 Redundant Unit Controller, ground common

#### Remote M&C Ethernet Options

W8 - Ethernet w/web browser Interface  
W18 - Ethernet w/SNMP (and MIB) Interface  
W28 - Ethernet w/direct TCP/IP Interface

#### Other Options

**Input Closure alarm option - Call Cross**

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