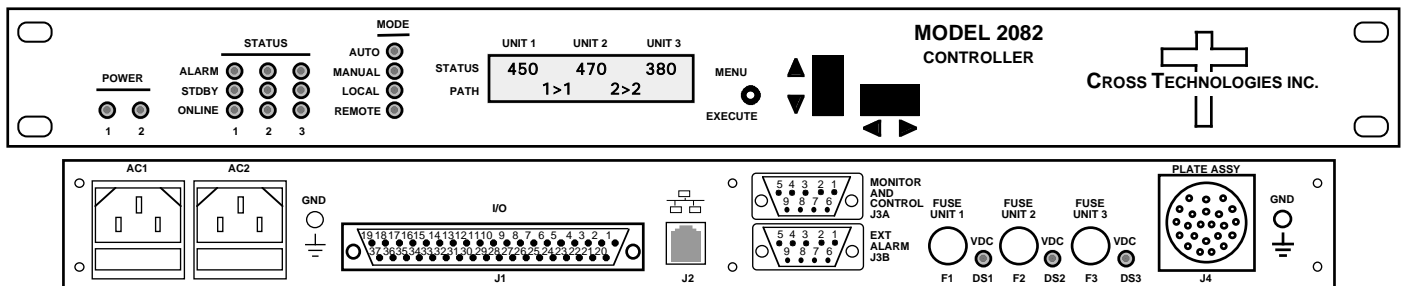


2082-14X Redundant Unit Controller, 26 Volt Switch Drive

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 is provided for 1:1 (3A) or 1:2 (3A) waveguide switch drive. The Model 2082-141 has +26 volts 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 ±10% VAC AC input connectors.



Front and Rear Panels (2082-142 shown with optional Ethernet)

EQUIPMENT SPECIFICATIONS*

LNA/LNB Power

Output Voltage/current +15 ± 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 or -142)

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 ±10% VAC, 47 - 63 Hz, 150 W max. power supplies

Models

2082-141 1:1 Redundant Unit Controller, +26 VDC common
2082-142 1:2 Redundant Unit Controller, +26 VDC common
2082-141P 1:1 Redundant Unit Controller, ground common
2082-142P 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.