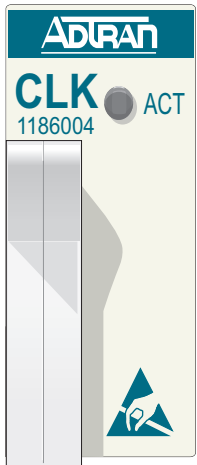


MX2820 Clock Card

P/N: 1186004L1
CLEI: M3C3L20A_ _



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LED STATUS FOR ACTIVE CLOCK CARD

- ACT**
- Green Normal (all OK)
 - Amber Software update in progress
 - ★ Amber (Flashing) Console open
 - Red Major or minor alarm present
 - ★ Red (Slowly Flashing) Clock Card has failed
 - ★ Red (Fast Flashing) Critical alarm present

LED STATUS FOR STANDBY CLOCK CARD

- ACT**
- ★ Green (Flashing) Normal (all OK)
 - Amber Software update in progress
 - Red Self-test failure

INSTALLATION AND TURNUP

After unpacking the unit, inspect it for damage. If damage is found, file a claim with the carrier and then contact ADTRAN® Customer Service.

This module occupies a Clock Card slot in the MX2820 chassis.

Follow these steps to install the MX2820 Clock Card:

1. Pull the ejector tab into the down position.
2. Gently but firmly push the Clock Card into the selected Clock Card slot.
3. Apply thumb pressure at the top and at the bottom of the unit to ensure a good seat of the Clock Card into the backplane connector.
4. Push the ejector tab up and closed against the front panel.

Upon installation, the Clock Card begins a self-test. When the self-test is complete, the LEDs indicate the current status of the hardware.

OPERATIONAL SPECIFICATIONS

- ◆ Operates from A or B –42 VDC to –56 VDC input voltage power feeds
- ◆ Operates over extended temperature range of 0°C to +50°C
- ◆ Storage –40°C to +85°C; Relative humidity to 95%, noncondensing

DESCRIPTION

The MX2820 Clock Card is a plug-in card, which generates a timing signal synchronized to either of two external BITS clock references. If both BITS clock references fail, the Clock Card meets Sonet Minimum Clock (SMC) holdover requirements to produce the clock reference. This signal is used by the MX2820 to synchronize its STS-1 transmit. Two Clock Cards provide 1:1 redundancy in the MX2820 system.

Features

The MX2820 Clock Card has the following features:

- ◆ Provides a redundant SMC source with clock holdover to the MX2820 STS-1 Multiplexer
- ◆ Communicates to the redundant Clock Card through an asynchronous data link directly between the two cards
- ◆ Provides another direct link to the redundant card for protection management
- ◆ Maintains full duplex link to the System Controller Unit (SCU) for management, alarm notification, and card provisioning
- ◆ Displays status using a single front panel LED, labeled **ACT**
- ◆ Supports downloading of FLASH program data to the active and protection card simultaneously or individually
- ◆ Meets NEBS Level 3 requirements
- ◆ Interfaces to backplane through a 24-pin Future Bus connector
- ◆ Supports TL1 and SNMP

COMPLIANCE

- ◆ The MX2820 Clock Card complies with UL 60950, NEBS Level 3, and GR-1089-CORE.
- ◆ The MX2820 Clock Card is intended for installation in restricted access areas only.
- ◆ The MX2820 Clock Card is intended for installation in a type “B” or “E” enclosure.
- ◆ This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
 1. This device may not cause harmful interference, and
 2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by ADTRAN could void the user’s authority to operate this equipment.

Code	Input	Output
Power Code	C	C
Telecommunication Code (TC)	–	–
Installation Code (IC)	A	–

PROVISIONING

MX2820 Clock Card provisioning is available through the MX2820 System menu by selecting Access Modules. Type C, and press ENTER to access the active MX2820 SMC.

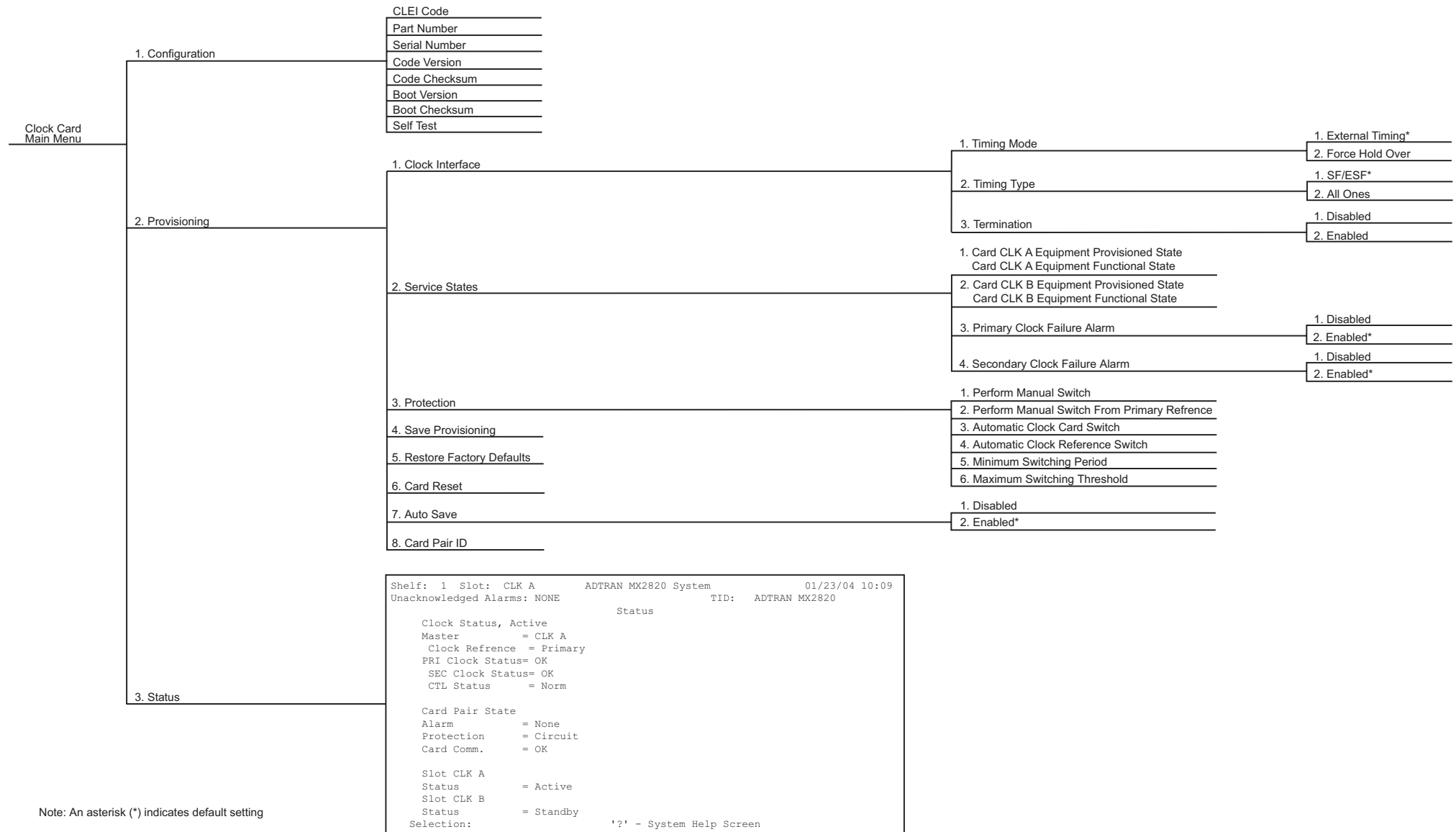
The menu tree on the reverse side of this Job Aid illustrates the options and default settings for the MX2820 Clock Card.



MX2820 Clock Card

PRICING AND AVAILABILITY 800.827.0807
TECH SUPPORT 800.726.8663
RETURN FOR REPAIR 256.963.8722
www.adtran.com
61186004L1-22C

MX2820 CLOCK CARD MENU TREE



Note: An asterisk (*) indicates default setting

Warranty: ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service.
Warranty information can be found online at www.adtran.com/warranty.