

PXL-500/PXL-510: Firmware v8.4.20

1.0 PXL-500/PXL-510 Firmware v8.4.20

The PXL-500/PXL-510 Firmware v8.4.20 makes three changes.

1. The Dual Verification feature has been added to both the firmware and to *Doors* v4.20 software. To use Dual Verification, your access control network must have both controller firmware v8.4.20 and *Doors* software v4.20. For detailed information on Dual Verification, please refer to Section 14 in the *Doors* Users Guide (p/n 01914-100).
2. Support is restored for the P-650 Pyramid Associates' Rocky Keypad and Reader for Card + PIN applications.
3. For PXL-500W Wiegand controllers, "presentation" card enrollment can now be done on the A-reader, the B-reader, or alternate between A- and B-readers on the master controller. This is selectable when you begin the card enrollment process.

2.0 Application

Firmware release 8.4.20 (PROM v8.4.20 and PIC v2.08) can only be used in PXL-500/PXL-510 controllers. The leading '8' digit in the release number indicates that this release is for the PXL-500/PXL-510.

3.0 Compatibility

- PROM 8.4.20 and PIC v2.08 are interconnected and both must be installed on a controller for proper operation.
- Firmware release 8.4.20 and *Doors* v4.20 must be used together to enable all the new features offered by this firmware release.
- An SB-593 is compatible with both a PXL-500/PXL-510 and a PXL-250 (the extra row of connector pins on the SB-593 will "hang" over the PXL-250's mounting holes).
- A PXL-500/PXL-510 can be added to any existing PXL-250 network and it will function just like a PXL-250. The PXL-500/PXL-510 has additional functionality in terms of card capacity and other features. If PXL-500s/PXL-510s are added to an existing PXL-250 network and the new features will be used (such as Temp Cards), then a PXL-500/PXL-510 must be installed as the master and any controller location that will use the function must also have a PXL-500/PXL-510 in place.
- If Alarm Control integration with a NetworX NX-8E alarm panel will be used, a PXL-510 **MUST** be used as the master. This is true for either a PXL-250 network, a PXL-500 network, or a mixed PXL-250/PXL-500 network. In a PXL-250 or a mixed network, any doors participating in alarm control must use a PXL-500/PXL-510.
- When implementing a PXL-500 system that will also incorporate telephone entry (EntraGuard Gold), the telephone entry unit is no longer required to be the master. PXL-250/EntraGuard mixed systems still require an EntraGuard as master.

NOTE: For additional compatibility information, see the [Compatibility Guide - Series 3 \(P/N 01876-001\)](#).

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4.0 Known Issues

1. Because of improvements made in the RS-485 circuitry, for network optimization R45 (2.2K) resistors **MUST** be removed from existing PXL-250s when adding a PXL-500/PXL-510. For instructions on how to test for, locate, and remove the R45 (2.2K) resistor from a PXL-250, refer to the [R45 \(2.2K\) Resistor Removal Application Note](#) (P/N 01736-001) included in the PXL-500/PXL-510 box or at www.kerisys.com.