Honeywell K2LCN-4

LCN Processor Board / Product dashboard

This consolidated record keeps Honeywell K2LCN-4 identity, technical limits, applications, precautions and acceptance evidence on one review surface.

IDENTITY

Honeywell K2LCN-4

PRODUCT ROLE

LCN Processor Board

PLATFORM

TDC 3000 Five/Ten-Slot Node

CONTROL BASIS

Exact evidence plus installed-system record

Exact model	K2LCN-4
Part number	51401551-400
Board function	High-performance/density LCN processor
Memory size	4 megawords
Node family	TDC 3000 five/ten-slot module
Rear companion	LCN I/O board

The dashboard places K2LCN-4 identity, operating role and maintenance boundaries in one review surface for the TDC 3000 Five/Ten-Slot Node installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

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LCN Processor Board / Technical matrix

Exact model	K2LCN-4
Part number	51401551-400
Board function	High-performance/density LCN processor
Memory size	4 megawords
Node family	TDC 3000 five/ten-slot module
Rear companion	LCN I/O board
Redundant-pair rule	Use compatible processor types
Excluded replacement	HMPU cannot be replaced by K2LCN under the cited procedure
Firmware record	Kernel and LCN firmware retained
Commissioning basis	Node load, LCN paths and diagnostics

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

Honeywell Five/Ten-Slot Module Service Manual

REVISION NOTE

LC15-530, September 1995

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LCN Processor Board / Application architecture

Application Module service

Restores a four-megaword K2LCN processor position.

Operator Station node

Supports the documented four-megaword node configuration.

Redundant node maintenance

Uses matched processor types across the node pair.

Legacy LCN restoration

Returns node processing and LCN communications after controlled replacement.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the TDC 3000 Five/Ten-Slot Node context, K2LCN-4 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

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LCN Processor Board / Risk and decision register

PRIMARY RISK

A mismatch between the K2LCN-4 label and the installed lcn processor board record.

CONFIGURATION RISK

Loss of the K2LCN-4 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another TDC 3000 Five/Ten-Slot Node item as automatically equivalent to K2LCN-4.

RELEASE RISK

Returning K2LCN-4 to control before diagnostics and functional response are witnessed.

Decision register

K2LCN-4 51401551-400: what memory size does the -400 suffix identify?

Honeywell's service table identifies 51401551-400 as the four-megaword K2LCN board.

K2LCN-4 51401551-400: which rear-board path accompanies the processor?

Documented five/ten-slot configurations place the K2LCN processor with an LCN I/O board.

K2LCN-4 51401551-400: what rule applies to redundant node pairs?

Use compatible processor types in both partners; do not mix processor generations without the documented engineering procedure.

K2LCN-4 51401551-400: what is checked at first power-up?

Review rail status, processor diagnostics, firmware identity, memory recognition and both LCN communication paths.

K2LCN-4 51401551-400: what processor function does the board perform?

It is the high-performance/density processor board for an approved LCN node configuration.

K2LCN-4 51401551-400: can it directly replace an HMPU?

No. The cited service procedure explicitly excludes HMPU replacement by K2LCN.

K2LCN-4 51401551-400: what must be backed up before replacement?

Retain the node database, firmware revisions, memory inventory, LCN addressing and partner-node status.

K2LCN-4 51401551-400: what completes node acceptance?

Confirm stable LCN communication, correct node personality, application execution and redundant-partner behavior where applicable.

Decision closeout

Approve the K2LCN-4 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

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LCN Processor Board / Canonical record and support

Canonical identity	Honeywell K2LCN-4
Product name	LCN Processor Board
Family	TDC 3000 Five/Ten-Slot Node
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

10024/I/F Conformally Coated Enhanced Communication Module	View 10024/I/F Conformally Coated Enhanced Communication Module page
TC-PRR021 C200 Redundancy Module	View TC-PRR021 C200 Redundancy Module page

MANUFACTURER EVIDENCE RECORD

Honeywell Five/Ten-Slot Module Service Manual

LC15-530, September 1995

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Send the exact model, quantity, destination and requested condition for a quotation.