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DBK20 & DBK21

48-Channel General-Purpose Digital I/O Cards

MEASUREMENT COMPUTING

Features

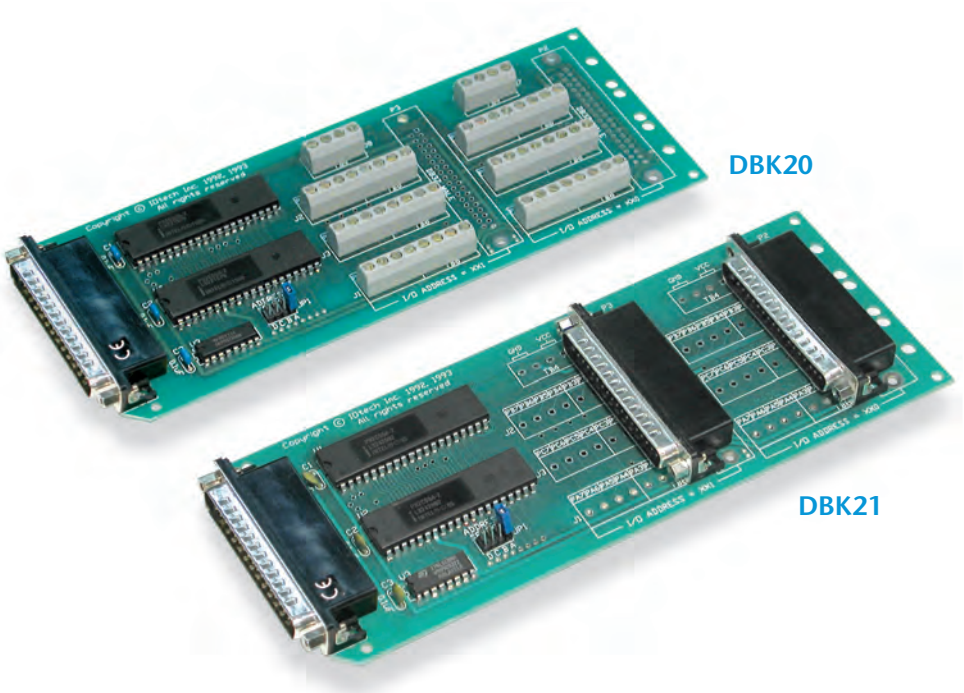
- **Offer 48 I/O lines expandable in 8-bit groups as inputs or outputs**

The DBK20 and DBK21 general-purpose digital I/O cards expand the number of digital I/O lines by 48 per card. The DBK20 and DBK21 connect to the P2 digital I/O connector.

Please note that when either the DBK20 or DBK21 is connected, the P2 digital I/O lines do not function as digital I/O lines for user-connected digital signals. Thus, for example, the first DBK20 or DBK21 card attached increases the system's number of usable digital I/O lines from 24 to 48, and subsequent cards each add 48 additional lines of user-programmable digital I/O.

Up to four DBK20 or DBK21 cards can be attached to the P2 port of a system for a total of 192 lines.

The DBK20 and DBK21 differ only in that the DBK20 features screw-terminals for signal outputs, whereas the DBK21 provides DB37 male connectors for signal outputs.



The DBK20 and DBK21 provide additional digital I/O capacity for LogBook, DaqBook, DaqBoard/2000 Series, and DaqScan

Specifications

48 I/O channels programmable in 8-bit groups as inputs or outputs
Connector: DB37 male, mates with P2* (attachment to the DaqBoard's P2 further requires the use of an optional CA-60 cable); DBK20 offers screw-terminals for signal outputs; DBK21 offers DB37 male connectors for signal outputs
Device: 82C55 x 2**
Output Voltage Levels
Minimum "1" Voltage: 3.0 @ 2.5 mA sourcing
Maximum "0" Voltage: 0.4 @ 2.5 mA sinking
Output Currents
Maximum Source Current: 2.5 mA
Maximum Sink Current: -2.5 mA
Input Voltage Levels
Minimum Required "1" Voltage Level: 2V
Maximum Allowed "0" Voltage Level: 0.8V
Output Float Leakage Current: 10 µA
Power Consumption: 50 mW

Cables

For use with DBK10, use CA-37-x ribbon cable, or contact factory of additional cabling options
For use with DBK60 or LogBook/360, no cable is required (except from DBK60 or LogBook/360 to the A/D mainframe)
For use with no enclosure, use CA-37-x where x is the number of DBK devices attached
For use with DaqLab Series (internal slots), use CA-255-2T with one board, or CA-37-2 for use with two DBK cards (or contact factory for additional cabling options)

Product Compatibility

✔ LogBook
✔ DaqBook
✔ DaqLab
✔ DaqScan
✔ DaqBoard/2000 Series

Ordering Information

Description	Part No.
48-channel general-purpose digital I/O card with screw-terminal connectors	DBK20
48-channel general-purpose digital I/O card with male DB37 connectors	DBK21

* Attachment to the DaqBoard/2000 Series requires a DBK202, DBK203A, DBK209, DBK213, or DBK214
** Pull-up resistor configuration must be installed externally

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