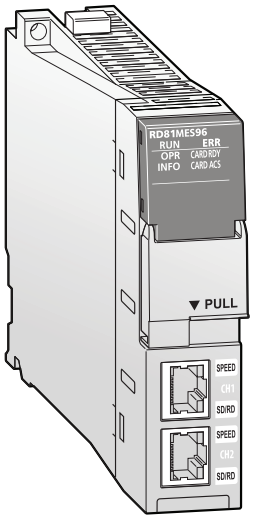
## ■ MES Interface module




Along with ever-changing manufacturing trends, improving machine productivity and maintaining manufacturing quality through meticulous traceability have become a fundamental part of manufacturing. MES Interface modules address these requirements by providing direct database connectivity for IT systems and facilitating automatic SQL* text generation using intuitive configuration setup software. Modules allow production data from the shop floor to be inserted into database records directly; for example, providing real-time production status that enables quicker response to production-related problems.

* Structured Query Language is a programming language designed for managing data in a relational database.

### Special features:

- Extensive data handling from shop floor to business process systems
- Direct access to IT system database
- Production data directly inserted into database
- System configuration costs reduced by 65 % (Assumption based on a typical control architecture.)

| Specifications | | | RD81MES96 |
|---|---|---|---|
| Module type | | | MES Interface module |
| Transmission method | | | Ethernet |
| Interface | | type | 1000BASE-T/100BASE-TX/10BASE-T (2CH) |
| Database connection | Supported database | | Oracle® Database, Microsoft® SQL Server, Microsoft® Access |
| | SQL text transmission | | SELECT, INSERT, UPDATE, DELETE, Multi-SELECT, STORED PROCEDURE |
| | Database communication action field | | 65,536 |
| | Accessible CPU module | | iQ-R series (direct, remote), System Q series (remote), L series (remote) |
| Data sampling interval | High-speed data sampling | ms | Sequence scan time synchronization, 1–900 |
| | General data sampling | s | 0.1–0.9, 1–3600 |
| Function | DB record read/write | | Reads/writes data in the database of the host information system |
| | Device memory read/write | | Reads/writes device memory data of the CPU module |
| | Trigger condition monitoring | | Monitors values of the time or device tag components etc., and starts jobs when a trigger condition changes from false to true (the condition is satisfied) |
| | Data operation and processing | | Performs four arithmetic operations, obtains remainder, performs character string operation, etc. |
| | Program execution | | Executes a program on the server through a MES interface module |
| | DB buffering | | Buffers the data sent to the database, and resend it after recovery, when the data cannot be linked due to the disconnection of the network between MES Interface module and the database or failure of the database etc. |
| Occupied I/O points | | | 32 |
| Internal power consumption (5 V DC) | | mA | 1250 |
| Weight | | kg | 0.25 |
| Dimensions (WxHxD) | | mm | 27.8x106x110 |

| Order information | Art. no. | 295423 |
|---|---|---|