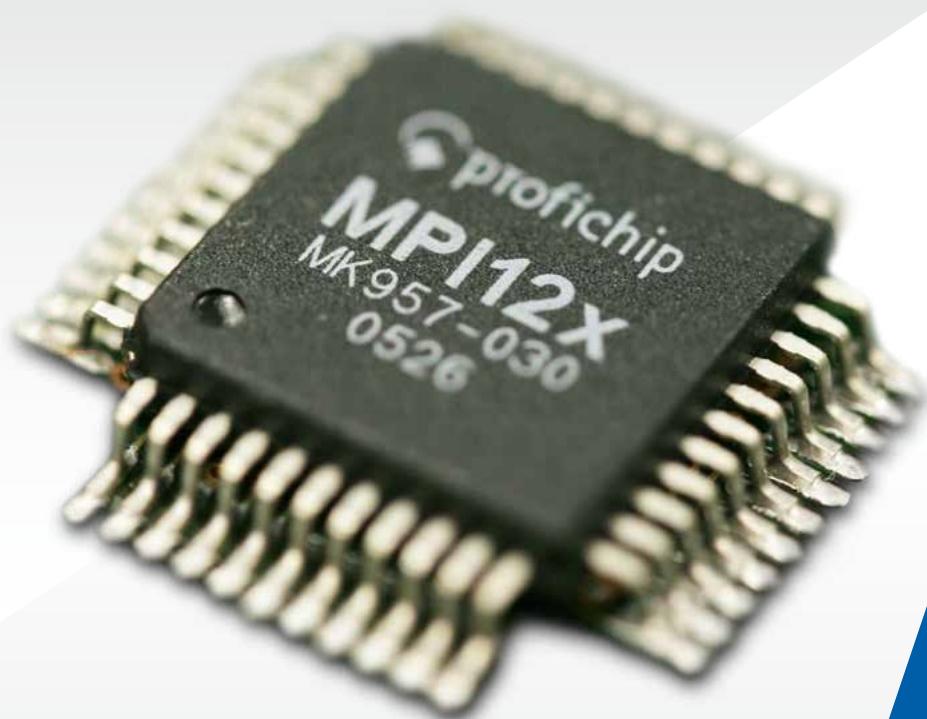


**YASKAWA**

# profichip® MPI12X

Multi Point Interface Controller



## Main Features

- MPI communication at up to 12Mbit/s, incl. token and low-level PB handling
- Additional PROFIBUS® DP slave core (VPC3+C compatible)
- 4 kB integrated SRAM
- Configurable 8-bit ucontroller interface
- 3.3 V single supply voltage / 5 V tolerant inputs
- Evaluation kit available
- Software stack
- Package PQFP44 (RoHS compliant)



Advanced controller with MPI to access information of your PROFIBUS DP master without the need of a second PROFIBUS DP master

### Description

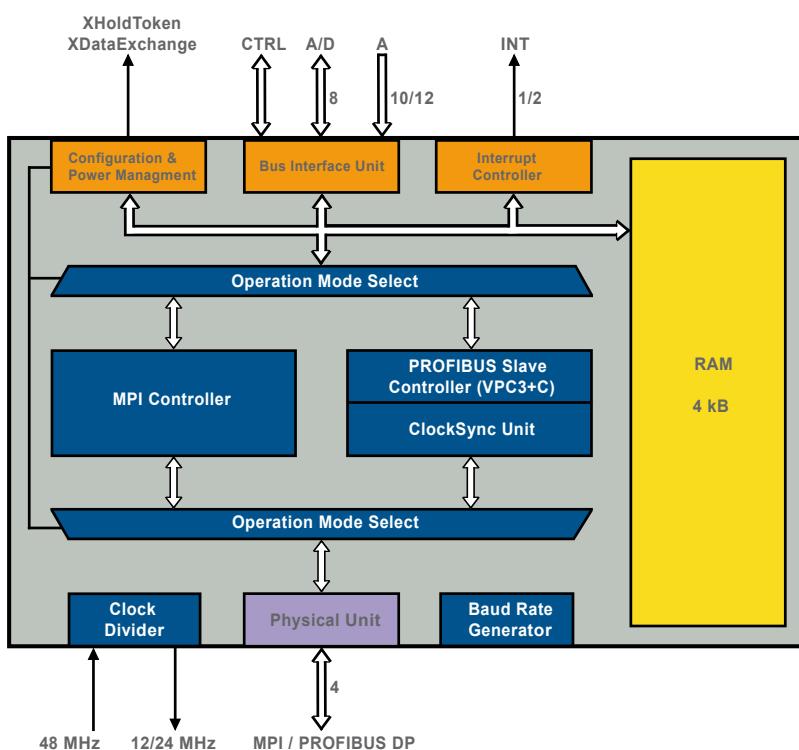
The profichip MPI12x is a combined communication ASIC with an 8-bit microprocessor interface, for MPI and PROFIBUS DP slave applications.

### Operation

The MPI12x handles the message and address identification, the data security sequences and the protocol processing for PROFIBUS, the underlying transport protocol. Token handling, error detection and data pre-processing are carried out automatically, relieving the host processor of all time-critical and time-consuming calculation tasks.

### Data Transmission

The support of data transmission rates up to 12 Mbit/s, the hardware integrated PROFIBUS protocol, the 4 kbyte communication RAM and the configurable microprocessor interface are features to create high-performance MPI applications. Also integrated is the well-known VPC3 series PROFIBUS DP Slave core (DP-V2 service, clock synchronisation).



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