

# AUTOSAR PACKAGE

## for Fujitsu automotive microcontrollers

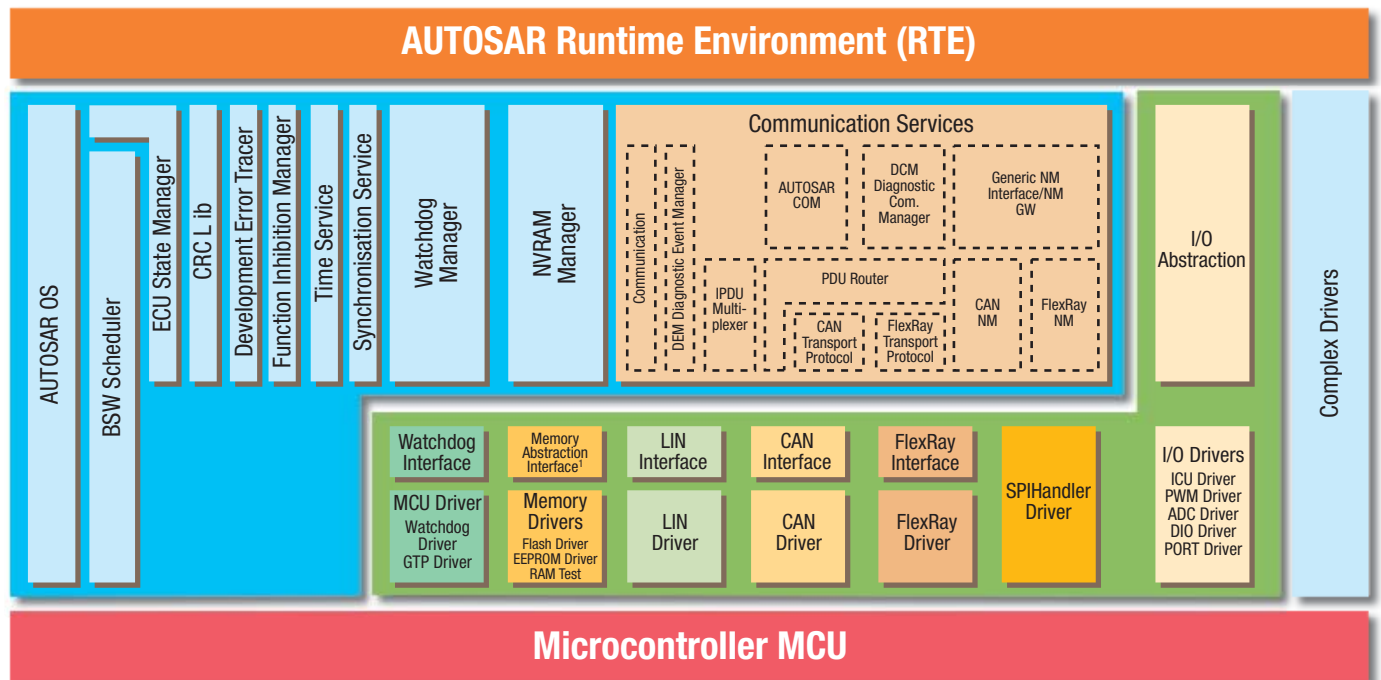


Diagram showing the AUTOSAR Runtime Environment.

### AUTOSAR package for Fujitsu automotive microcontrollers

- OS
- RTE
- BSW
- Protocol stacks
  - FlexRay™
  - CAN
  - LIN
- MCAL
  - Full implementation of all resources
  - DIO, Port, ADC, PWM, ICU, SPI, GPT, MCU, WDG, FLS

### First implementation

- MB91460 Series (32-bit, FR Family)

### Description of MB91460 automotive series MCUs

The FR-based MB91460 series (based on 0.18µm embedded flash technology) offers devices for car dashboard, car body control, car infotainment and also FlexRay applications, e.g. in the chassis area. It is a successor of the well-established MB91360G series.

Most of the MB91460 series devices feature a common set of basic features:

- FR70 core (out of the FR60 core family), operating up to 100MHz
- Up to 4MB embedded flash with 64kB and 8kB sectors
- Flash security (read-out protection, additional write protection for selected sectors)
- Prefetch/Cache architecture to speed-up access to the on chip flash

- An EDSU/MPU unit, which either will be used for on-chip debugging using the ACCEMIC MDE environment or as a memory protection unit
- A BootROM to support initialisation of the MCU and in-circuit Flash programming
- A hardware watchdog, which is running based on the on-chip RC oscillator and independent of the main clock
- A clock modulator to significantly improve EMC behavior
- DMA, with 5 channels, which can be configured in a very flexible way (see hardware manual for details)

For other features see the detailed block diagram.

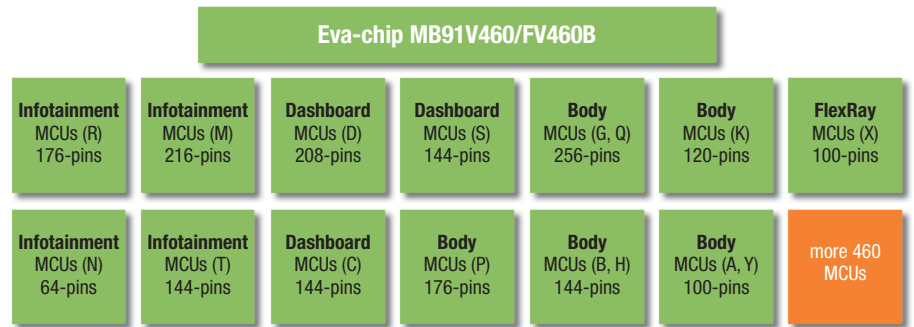
**FACTSHEET  
AUTOSAR PACKAGE**

The MB91460 series devices operate on a single supply voltage between 3.0 and 5.5V. The standard operating temperature is -40 to +105°C. Operation up to 125°C is possible (check details with Fujitsu, please).

The current MB91460 line-up (MCUs, which are available, under development or under planning) is shown on the product line-up diagram.

**Features of MB91F467DA**

- 1088kB of flash memory directly connected to the CPU core via an advanced prefetch / caching system. The device includes Fujitsu's flash security feature
- 64kB of RAM
- SMC: (stepper motor controller) 6ch
- CAN: 3ch with 32 message buffers each
- LIN-UART: 5ch, (4 ch are equipped with transmit and receive FIFOs)
- External bus interface, which supports various memories, but can also be used to connect Fujitsu graphics controllers or the new FlexRay ASSP device

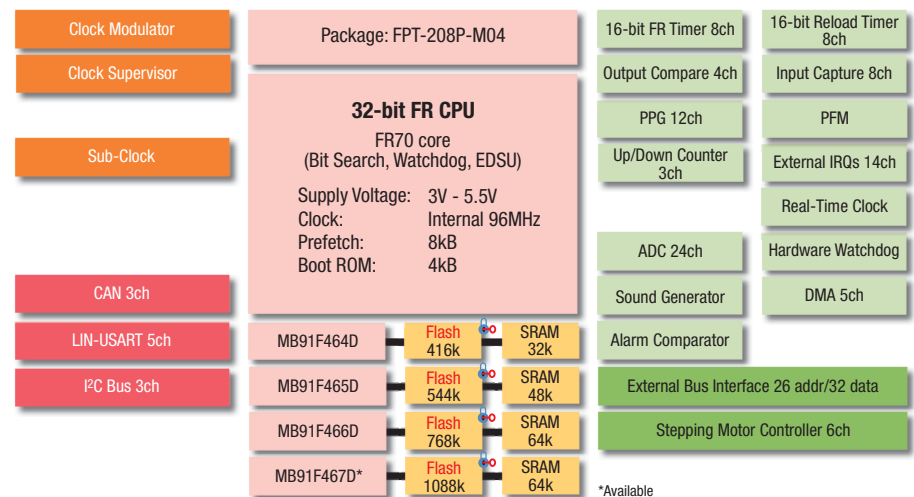


Key

Development has not yet started

Sample available

MB91460 line-up.



Features of the MB91460D series: 208-pin dashboard MCUs.

**ASK FUJITSU MICROELECTRONICS EUROPE**

Contact us on +49(0) 61 03 69 00 or visit <http://emea.fujitsu.com/microelectronics>