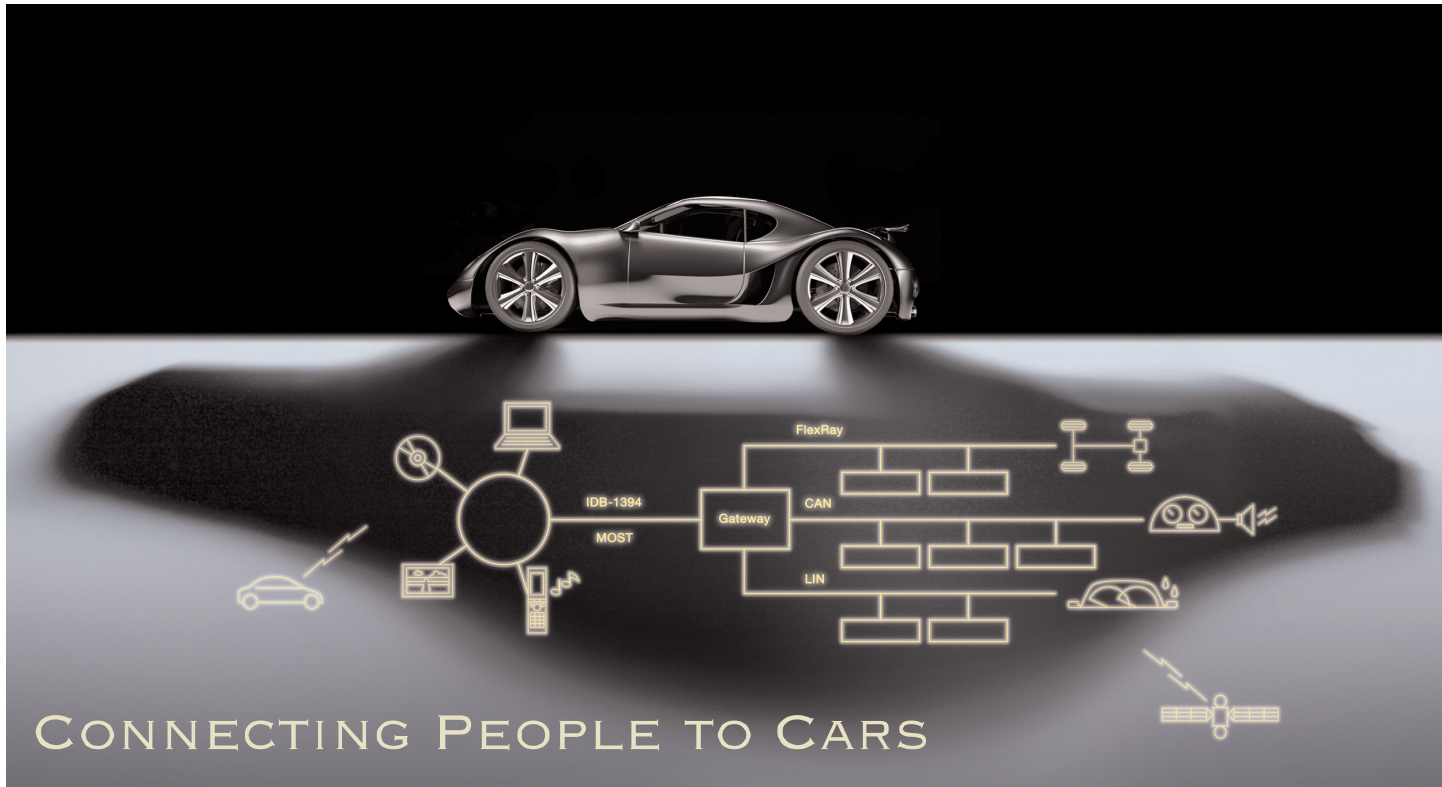
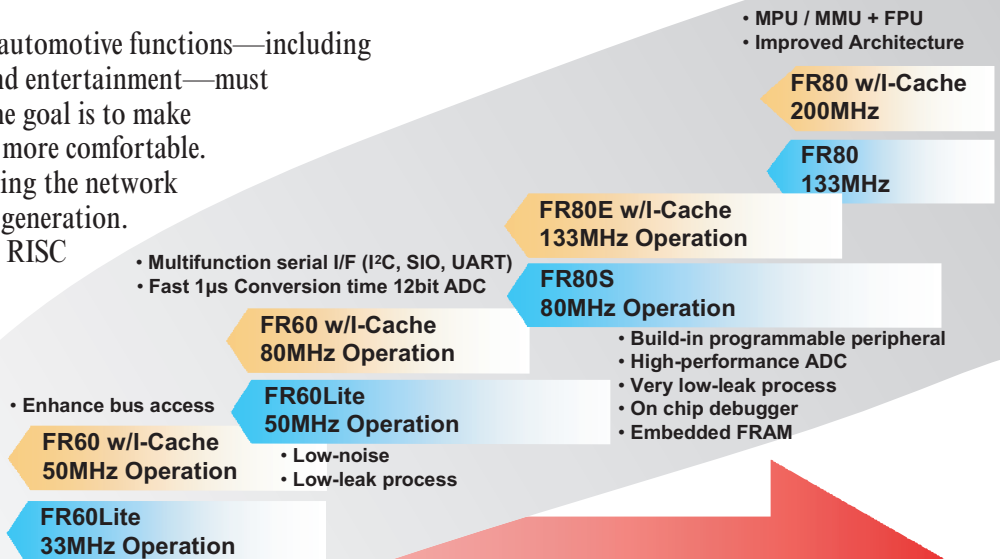


Fujitsu Supports Next-Generation ECU Designs 16-bit CISC and 32-bit RISC Microcontrollers



► Overview

People and vehicles are linked, and automotive functions—including driver-assistance, communication and entertainment—must correspond to human intentions. The goal is to make vehicles safer, more convenient, and more comfortable. Fujitsu’s in-vehicle solutions will bring the network linking people to cars into the next generation. The Fujitsu 16-bit CISC and 32-bit RISC MCUs are part of this roadmap.

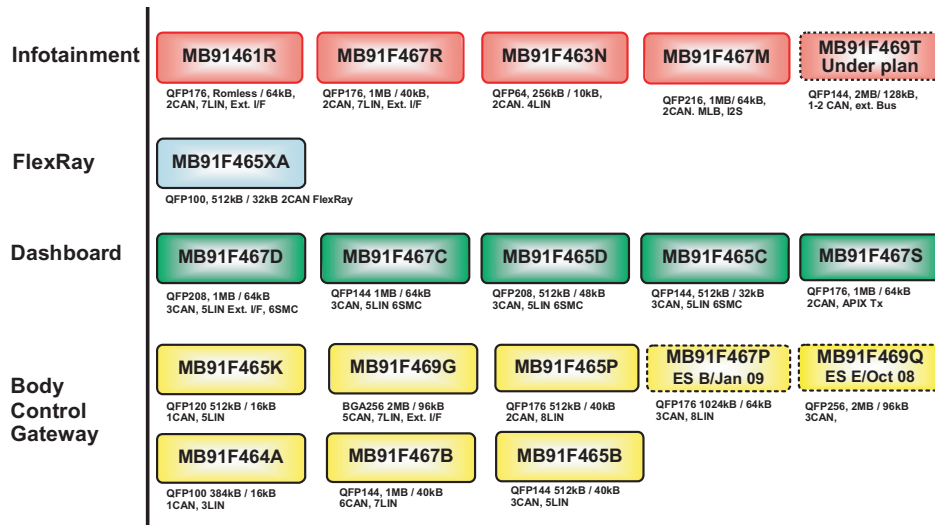


Driving to the Next Generation

Fujitsu 32-bit Automotive MCU Family: MB91460 Series

Description

The FR-based MB91460 series, a proven, well-established product family, offers devices for meter cluster, car body control, car infotainment and FlexRay™ applications.



MB91460 Family Products

Features

- FR70 core operating up to 100MHz
- Up to 4MB embedded flash
- Flash security
- Prefetch / cache architecture
- An EDSU/MPU unit
- A BootROM architecture
- A hardware watchdog
- A clock modulator that improves EMC
- Flexible 5-channels DMA

Specifications

Product	MB91F463N	MB91F464A	MB91F465K	MB91F463/4/5Y	MB91F465/7B	MB91F465P	MB91F467R	MB91F469G	MB91F467M	MB91F465/7D	MB91F465/7C	MB91F467/9T	MB91F467S	MB91F465X
FLASH	288KB	416KB	544KB	416KB / 544KB	544KB / 1088KB	544KB	1088KB	2112KB	1088KB	544KB / 1088KB	544KB / 1088KB	1088KB / 2112KB	1088KB	544KB
RAM	10kB	16kB	16kB	32kB	40kB	40kB	64kB	96kB	64kB	48kB/64kB	32kB/64kB	64kB/128kB	64kB	32kB
Direct map / ICache	4KB / -	-	4KB / -	8KB / -	8KB / -	8KB / -	8KB / -	8KB / -	8KB / 4KB	8KB / -	8KB / -	8KB / -	8KB / -	8KB / -
DMA	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch	5ch
CAN	2ch(32msg)	1ch(32msg)	1ch(32msg)	2ch(32msg)	5B: 3ch 7B: 6ch(32msg)	3ch(32msg)	2ch(64,32msg)	5ch(128msg)	2ch(64+32msg)	3ch(32msg)	3ch(32msg)	2ch(32msg)	2ch(32msg)	2ch(32msg)
LIN-UART	4ch	5ch	5ch	3ch	7ch / 4ch	12ch	7ch	8ch	9ch	5ch	5ch	11ch	5ch	3ch
I ² C	2ch	1ch	1ch	1ch	2ch	4ch	3ch	4ch	8ch	3ch	3ch	4ch	3ch	1ch
A/D	8ch	21ch	26ch	17ch	32 / 16ch	32ch	16ch	32ch	9ch	24ch	30ch	32ch	16ch	17ch
PPG timer	8ch	10ch	12ch	12ch	16 / 8ch	32ch	8ch	16ch	8ch	12ch	12ch	14ch	16ch	12ch
Reload timer	5ch	8ch	8ch	8ch	8ch	16ch	5ch	8ch	5ch	8ch	8ch	8ch	8ch	8ch
RTC	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch	1ch
Free run timer	4ch	8ch	8ch	8ch	8ch	8ch	4ch	8ch	4ch	8ch	8ch	8ch	8ch	8ch
ICU / OCU	4ch / 4ch	8ch / 6ch	8ch / 8ch	8ch / 6ch	8/4ch / 8/4ch	8ch / 8ch	4ch / 4ch	8ch / 8ch	4ch / 4ch	8ch / 4ch	8ch / 4ch	8ch / 8ch	8ch / 4ch	8ch / 6ch
Special feature	-	-	-	-	-	-	-	-	MediaLB / I ² S 1ch / 10ch	SMC 6ch	SMC 6ch	-	APIX 1ch	FlexRay 2ch
Ext. Bus	-	-	-	-	A: 22bit, D: 16bit	A: 24bit, D: 16bit	A: 24bit, D: 16bit	A: 28bit, D: 32bit	A: 24bit, D: 16bit	A: 26bit, D: 32bit	-	A: 24bit, D: 16bit	A: 26bit, D: 32bit	-
Package	LQFP-64	LQFP-100	LQFP-120	LQFP-100	LQFP-144	LQFP-176	LQFP-176	PBGA-256	LQFP-216	LQFP-208	LQFP-144	LQFP-144	LQFP-176	LQFP-100
Vcc	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-3.6V/ 3.0-5.5V	3.0-5.5V	3.0-3.6V/ 3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V	3.0-5.5V

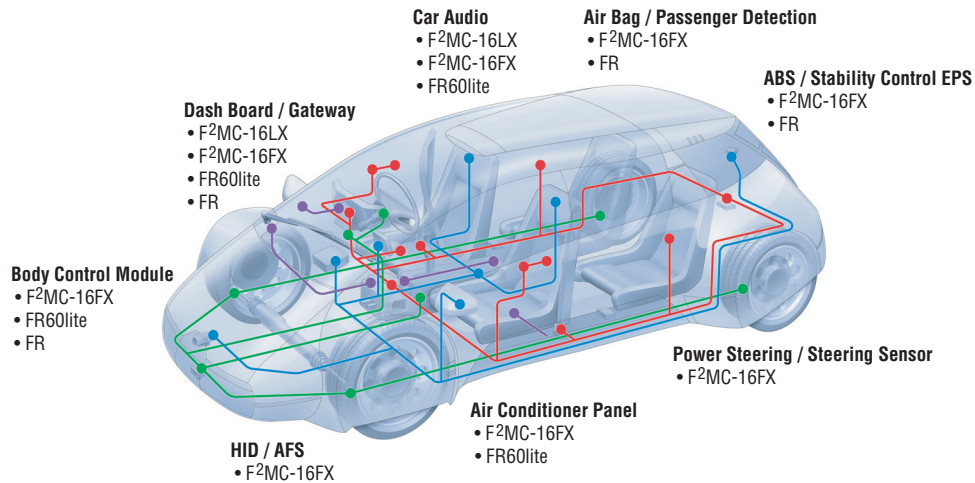
Fujitsu Roadmap for Next-Generation ECU Designs

Overview

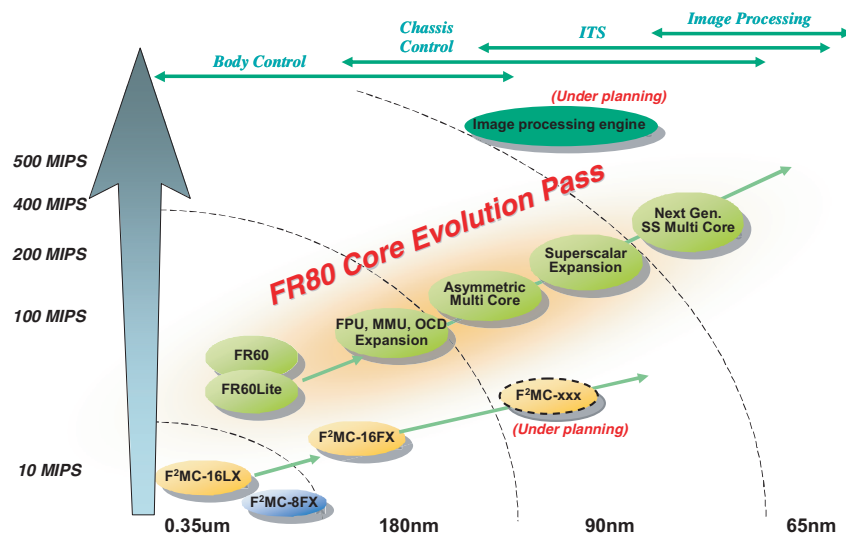
Fujitsu has been developing highly reliable microcontrollers for more than two decades. The company is committed to meeting new and emerging requirements for reliability and safety, helping automotive applications connect people to cars.

Applications

Fujitsu is committed to supporting body, chassis, and safety applications with its microcontrollers.



Fujitsu consistently improves the CPU core to best fit automotive applications.



The Fujitsu CPU Core

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