FS8600 SDS

Fail-safe system basis chip with multiple SMPSs and LDOs

Rev. 1.1 — 23 November 2021

Product short data sheet

1 General description

The FS86 device family, SW compatible with FS84/85 family, expands the power capability, the safety integration and system scalability of domain controller applications to address the multiple MCU requirements present in ADAS and Electrification.

The FS86 includes multiple switch mode and linear voltage regulators and enhanced safety features with Fail-Safe outputs. The latest NXP HV Buck architecture features a 15 A capability with e-fuse protection to shut down the system power to prevent any damage in case of a harmful event. The ability to monitor ten voltages with +/-1% accuracy extends the system safety concept by allowing QM rails from others components to be monitored.

With its innovative synchronization feature, the FS86 is part of the BYLink System Power Platform, enabling a new smart approach to designing Safe System Power Management. It provides power, safety and system scalability to ease platform development strategies. Cascaded system SBC/PMICs behave as ONE with safety and sequencing synchronization.

The FS86 is part of a complete family of devices that offer scalability in power and safety, and provide pin-to-pin and software compatibility. It is developed in compliance with the ISO 26262 standard and is qualified according to AEC-Q100 requirements.

2 Features and benefits

Operating Range

- 60 V DC maximum input voltage for 24 V battery network applications
- 36 V DC maximum input voltage for 12 V battery network applications
- Support operating voltage range down to 4.5 V battery voltage with VPRE = 3.3 V
- Low Power OFF mode with low sleep current (10 μA typ.)

Power Supplies

- VPRE: Synchronous high voltage buck controller with external FETs
 - Configurable output voltage from 3.3 V to 5.0 V and current capability up to 15 A DC
 - Selectable switching frequency in force PWM with APS
- BOOST: Low voltage boost converter with integrated low-side FET
 - Configurable output voltage from 5 V to 6 V and current capability up to 1 A DC
- · BUCK: Low voltage integrated synchronous BUCK converter
 - Configurable output voltage from 1.0 V to 3.3 V and current capability up to 2.5 A DC
- LDO1: Low voltage LDO regulator for MCU I/O and system peripheral support with load switch capability
 - Configurable output voltage from 1.5 V to 5.0 V and current capability up to 400 mA DC



- LDO2: Medium voltage LDO regulator for MCU I/O and system peripheral support
 - Configurable output voltage from 1.1 V to 5.0 V and current capability up to 400 mA DC

System support

- 2x input pins for wake-up detection, 3.3 V compatible and battery voltage sensing capability
- Analog Multiplexer with full System Voltages monitoring
- Enhanced leader/follower power up sequencing management thru XFAILB pin
- 10 ms optional RSTB release delay during power up for certain MCU compliancy
- Device control via 32 bits I2C interface with 8-bit CRC

Compliancy

- EMC optimization techniques on switching regulators including spread spectrum, slew rate control and manual frequency tuning
- EMI robustness supporting various automotive EMI Test standards
- Conducted Emission: IEC 61967-4
- Conducted Immunity: IEC 62132-4
- Radiated emission: FMC1278 rev. 3 from 2018
- Radiated immunity: FMC1278 from 2018 and ISO11452-4

Functional Safety

- · Scalable portfolio to fit for ASIL B to ASIL D Automotive Safety Systems
- Independent voltage Monitoring Circuitry
- Up to 10 voltage monitoring input for FS86 and external PMIC voltage rails with 1 % target accuracy
- Dedicated interface for MCU monitoring with simple or challenger watchdog monitoring
- · MCU hardware failure monitoring with PWM monitoring capability
- External IC failure monitoring
- · Logical and Analog Built-in Self-Test
- Safety Outputs with latent fault detection mechanism (PGOOD, RSTB, FS0B)

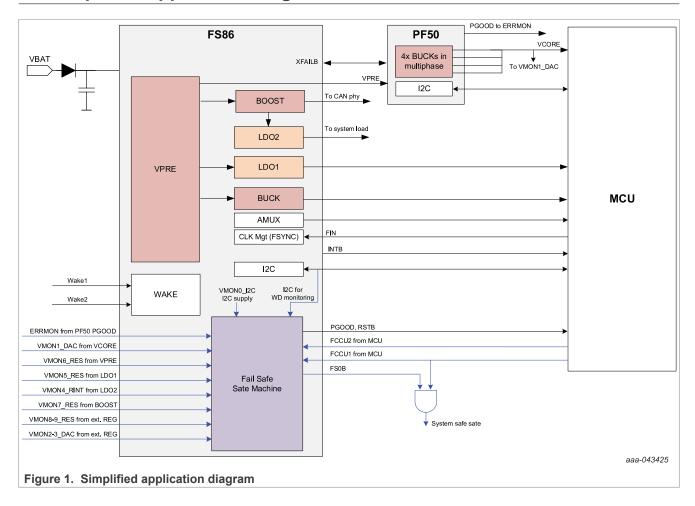
Configuration and Enablement

- QFN 48 pins with exposed pad for optimized thermal management
- · OTP programming for device customization

3 Applications

- Domain controller (ADAS, electrification, Infotainment, etc.)
- · Radar (radar, imaging radar)
- Vision (mono camera, stereo camera, night vision, etc.)
- 24 V battery network (60 V maximum): Truck, bus, transportation
- 12 V battery network (36 V maximum): Automotive

4 Simplified Application Diagram



Ordering information 5

5.1 Device family

FS8600 device family (called FS86 hereafter) provides selectable features based on part numbering and OTP configuration.

Table 1. Device options

FS + Core ID	App- lication	VSUP max rating	VPRE	VBOOST	BUCK	LDOs	VMONs	Watchdog	FCCU	ERRMON	FIN
FS8600		60 V	Yes	Yes	No	2	4	Yes ^[1]	Yes	Yes	Yes
FS8601		60 V	Yes	Yes	No	2	6		Yes	Yes	Yes
FS8602		60 V	Yes	Yes	No	2	8		Yes	Yes	Yes
FS8603	24 V	60 V	Yes	Yes	No	2	10		Yes	Yes	No ^[2]
FS8610	battery network	60 V	Yes	Yes	Yes	2	4		Yes	Yes	Yes
FS8611		60 V	Yes	Yes	Yes	2	6	_	Yes	Yes	Yes
FS8612		60 V	Yes	Yes	Yes	2	8		Yes	Yes	Yes
FS8613		60 V	Yes	Yes	Yes	2	10		Yes	Yes	No ^[2]
FS8620		36 V	Yes	Yes	No	2	4		Yes	Yes	Yes
FS8621		36 V	Yes	Yes	No	2	6		Yes	Yes	Yes
FS8622		36 V	Yes	Yes	No	2	8		Yes	Yes	Yes
FS8623	12 V	36 V	Yes	Yes	No	2	10		Yes	Yes	No ^[2]
FS8630	battery network	36 V	Yes	Yes	Yes	2	4		Yes	Yes	Yes
FS8631		36 V	Yes	Yes	Yes	2	6		Yes	Yes	Yes
FS8632		36 V	Yes	Yes	Yes	2	8		Yes	Yes	Yes
FS8633		36 V	Yes	Yes	Yes	2	10		Yes	Yes	No ^[2]

ASIL B: Watchdog Simple. ASIL D: Watchdog Challenger. FIN input shared with VMON9 input

5.2 Part numbering

M	FS	8600	В	M	В	A0	ES
P: prototype	HV PMIC	FS86 Core ID ^[1]	Silicon revision	Ambient temperature (T _A)	ASIL	OTP code	Package type
M: standard			A: A0	M: -40 °C to 125 °C	B: ASIL B	A0: OTP A0	ES: dimple
S: custom			B: A1		D: ASIL D	xx: OTP xx	wettable flank

^[1] See Table 1

Table 2. Ordering information

Part Number ^[1]	Application	ASIL	Package			
Part Number	Application		Name	Description	Version	
MFS8600BMBA0ES ^[2]		В				
MFS8601BMBA0ES ^[2]	24 V battery		LIDOEN40-D	HPQFN48, plastic, thermally enhanced very thin quad flat package, no lead, wettable flanks	0.07040.00	
MFS8602BMBA0ES ^[2]	network		HPQFN48eP		SOT619-26	
MFS8603BMBA0ES ^[2]						

FS8600_SDS

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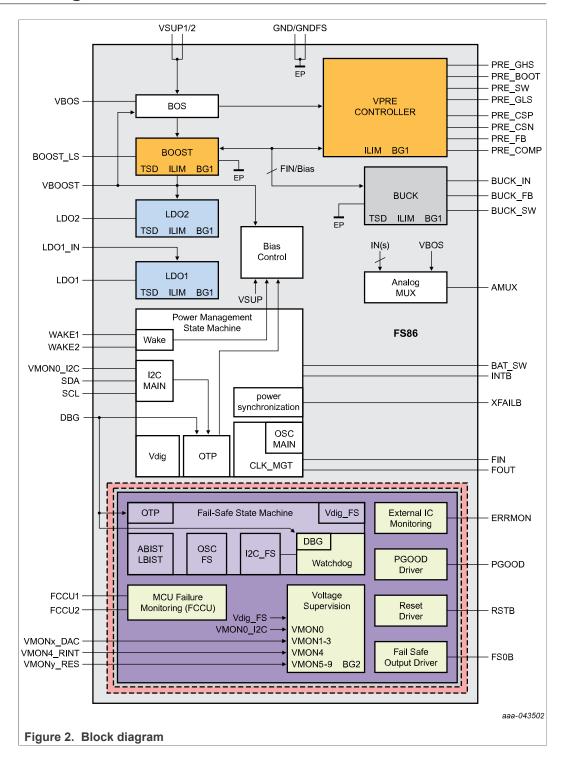
Table 2. Ordering information...continued

Part Number ^[1]	Application	ASIL		Package																												
	Application	AGIL	Name	Description	Versi																											
MFS8610BMBA0ES ^[2]																																
MFS8611BMBA0ES ^[2]																																
MFS8612BMBA0ES ^[2]																																
MFS8613BMBA0ES ^[2]																																
MFS8600BMDA0ES ^[2]			-																													
MFS8601BMDA0ES ^[2]																																
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MFS8613BMDA0ES ^[2]																																
MFS8620BMBA0ES ^[2]		В	-																													
MFS8621BMBA0ES ^[2]																																
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MFS8623BMBA0ES ^[2]																																
MFS8630BMBA0ES ^[2]																																
MFS8631BMBA0ES ^[2]																																
MFS8632BMBA0ES ^[2]																																
MFS8633BMBA0ES ^[2]	12 V battery																															
MFS8620BMDA0ES ^[2]	network		-																													
MFS8621BMDA0ES [2]																																
MFS8622BMDA0ES ^[2]																																
MFS8623BMDA0ES ^[2]		_																														
MFS8630BMDA0ES ^[2]		D																														
MFS8631BMDA0ES ^[2]																																
MFS8632BMDA0ES ^[2]																																
MFS8633BMDA0ES ^[2]																																
PFS8613AMDA0ES ^[3]	12 V or 24 V	D 4 D																														
PFS8613BMDA0ES ^[4]	battery network	B or D																														

- [1] To order parts in tape and reel, add the R2 suffix to the part number.
- [2] Production part number available only after product qualification (A1 silicon pass).
- [3] Superset part number that can cover all features for prototype ordering (A0 silicon pass/obsolete)...
- [4] Superset part number that can cover all features for prototype ordering (A1 silicon pass).

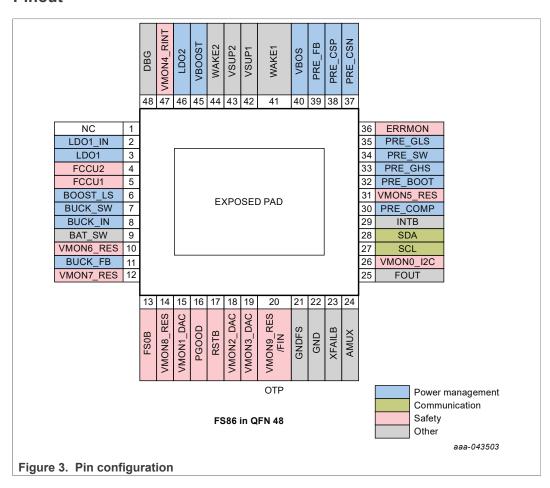
Part numbers ending with A0 OTP code are non-programmed OTP configuration. Preprogrammed OTP configurations are managed through part number extension. For a custom OTP configuration, please contact your local NXP sales representative.

6 Internal block diagram



7 Pinout information

7.1 Pinout



7.2 Pin description

Table 3. Pin description

Pin	Name	Туре	Description
1	N/C	N/C	Not connected pin
2	LDO1_IN	Analog input	Linear regulator #1 input voltage
3	LDO1	Analog output	Linear regulator #1 output voltage
4	FCCU2	Digital input	MCU Error Monitoring input 2
5	FCCU1	Digital input	MCU Error Monitoring input 1
6	BOOST_LS	Analog input	BOOST Low Side Drain of internal MOSFET
7	BUCK_SW	Analog output	Low Voltage Buck switching node
8	BUCK_IN	Analog input	Low Voltage Buck input voltage
9	BAT_SW	Digital output	Battery switch control output. Active Low. Open drain structure.
10	VMON6_RES	Analog input	External resistor bridge voltage monitoring input #6

Table 3. Pin description...continued

Table 3. I	Pin descriptioncontinu	ued	
Pin	Name	Туре	Description
11	BUCK_FB	Analog input	Low Voltage Buck voltage feedback.
12	VMON7_RES	Analog input	External resistor bridge voltage monitoring input #7
13	FS0B	Digital output	Fail Safe Output 0. Active Low. Open drain structure.
14	VMON8_RES	Analog input	External resistor bridge voltage monitoring input #8
15	VMON1_DAC	Analog input	DAC voltage monitoring input #1
16	PGOOD	Digital output	Power good output
17	RSTB	Digital input/output	Reset output. Active Low. The main function is to reset the MCU. Reset input voltage is monitored in order to detected external reset and fault condition
18	VMON2_DAC	Analog input	DAC voltage monitoring input #2
19	VMON3_DAC	Analog input	DAC voltage monitoring input #3
20	VMON9_RES	Analog input	External resistor bridge voltage monitoring input #9. Exclusive with FIN (OTP)
20	FIN	Digital input	Frequency synchronization input. Exclusive with VMON9_RES (OTP)
21	GNDFS	Ground	Fail Safe ground
22	GND	Ground	Main ground
23	XFAILB	Digital input/output	Power Synchronization input/output with NXP low voltage PMIC
24	AMUX	Analog output	Multiplexed output to be connected to an MCU ADC with selection of the analog parameter thru I2C.
25	FOUT	Digital output	Frequency synchronization output or digital output (OTP)
26	VMON0_I2C	Analog input	Input voltage for FIN, AMUX, I2C, INTB, FCCU, ERRMON. Internal resistor bridge voltage monitoring input #0
27	SCL	Digital input	I2C Bus. Clock input
28	SDA	Digital input/output	I2C Bus. Bidirectional data line
29	INTB	Digital output	Interrupt output
30	PRE_COMP	Analog input	VPRE compensation network and negative current sense input
31	VMON5_RES	Analog input	External resistor bridge voltage monitoring input #5
32	PRE_BOOT	Analog input/output	VPRE bootstrap capacitor
33	PRE_GHS	Analog output	VPRE High Side gate driver for external MOSFET
34	PRE_SW	Analog output	VPRE switching node
35	PRE_GLS	Analog output	VPRE Low Side gate driver for external MOSFET
36	ERRMON	Digital input	External IC error monitoring input
37	PRE_CSN	Analog input	VPRE negative current sense input
38	PRE_CSP	Analog input	VPRE positive current sense input
39	PRE_FB	Analog input	VPRE voltage feedback.
40	VBOS	Analog output	Best of supply output voltage
41	WAKE1	Digital/Analog input	Wake up input 1 (thru ext. serial resistor)

Table 3. Pin description...continued

Pin	Name	Туре	Description
42	VSUP1	Power Analog Input	Power supply of the device #1. An external reverse battery protection diode in series is mandatory
43	VSUP2	Power Analog Input	Power supply of the device #2. An external reverse battery protection diode in series is mandatory
44	WAKE2	Digital/Analog input	Wake up input 2 (thru ext. serial resistor)
45	VBOOST	Analog output	Boost output voltage
46	LDO2	Analog output	Linear regulator #2 output voltage
47	VMON4_RINT	Analog input	Internal resistor bridge voltage monitoring input #4
48	DBG	Analog input	DEBUG Mode entry and OTP input supply
EP	EP	Ground	Expose pad must be connected to GND

8 Maximum ratings

Table 4. Maximum ratings

All voltages are with respect to ground, unless otherwise noted. Exceeding these ratings may cause a malfunction or permanent damage to the device.

Symbol	Conditions	Parameter	Min	Max	Unit
Voltage ratings of 24 V n	etwork application part numb	pers (see Table 2)	-		
VSUP1/2	DC Voltage	VSUP1,2 pins	-0.3	60	V
WAKE1/2	DC Voltage	WAKE1,2 pins (external series resistor mandatory)	-1.0	60	V
FS0B	DC Voltage	FS0B pin	-0.3	60	V
BAT_SW	DC Voltage	BAT_SW pin	-0.3	60	V
DDE OW	DC Voltage	DDE OWnin	-2.0	60	
PRE_SW	Transient voltage < 20 ns	PRE_SW pin	-3.0	60	V
PRE_GHS, PRE_BOOT	DC Voltage	PRE_GHS, PRE_BOOT pins	-0.3	65.5V	V
Voltage ratings of 12 V n	etwork application part numb	pers (see <u>Table 2</u>)			
VSUP1/2	DC Voltage	VSUP1,2 pins	-0.3	36	V
WAKE1/2	DC Voltage	WAKE1,2 pins (external series resistor mandatory)	-1.0	36	V
FS0B	DC Voltage	FS0B pin	-0.3	36	V
BAT_SW	DC Voltage	BAT_SW pin	-0.3	36	V
DDE CW	DC Voltage	DDE CW nin	-2.0	36	V
PRE_SW	Transient voltage < 20 ns	PRE_SW pin	-3.0	36	
PRE_GHS, PRE_BOOT	DC Voltage	PRE_GHS, PRE_BOOT pins	-0.3	41.5 V	V
Voltage ratings of genera	ıl pins	1			
BOOST_LS	DC Voltage	BOOST_LS pin	-0.3	8.5	V
VBOOST	DC Voltage	VBOOST pin	-0.3	6.5	V
DUCK IN	DC Voltage	DUCK IN sis	-1.0	5.5	V
BUCK_IN	Transient voltage < 3 μs	BUCK_IN pin	-1.0	6.5	V
BUCK_SW	Transient voltage < 20 ns	BUCK_SW pin	-0.3	6.5	V
VMONx	DC Voltage	VMON_DAC 1-3, VMON_RES 5-9	-0.3	36	V
DBG	DC Voltage	DBG pin	-0.3	10	V
All other pins	DC Voltage	at all other pins	-0.3	5.5	V

9 Electrostatic discharge

9.1 Human body model (JESD22/A114)

The device is protected up to ± 2 kV, according to the human body model standard with 100 pF and 1.5 k Ω . This protection is ensured at all pins.

9.2 Charged device model

The device is protected up to ± 750 V on corner pins and up to ± 500 V on all other pins, according to the AEC Q100 - 011 charged device model standard.

9.3 Discharged contact test

The device is protected up to ±8 kV, according to the following discharged contact tests.

- Discharged contact test (IEC61000-4-2) at 150 pF and 330 Ω
- Discharged contact test (ISO10605.2008) at 150 pF and 2 $k\Omega$
- Discharged contact test (ISO10605.2008) at 330 pF and 2 k Ω

This protection is ensured at VSUP1, VSUP2, WAKE1, WAKE2, FS0B pins.

10 Thermal ratings

Table 5. Thermal ratings

Symbol	Description (Rating)	Min	Max	Unit				
Thermal rat	Fhermal ratings							
T _A	Ambient Temperature (Grade 1)	-40	125	°C				
TJ	Junction Temperature (Grade 1)	-40	150	°C				
T _{STG}	Storage Temperature	-55	150	°C				
Thermal res	sistance (per JEDEC JESD51-2 and JESD51-8)							
$R_{\theta JA}$	Thermal Resistance Junction to Ambient (2s2p)	_	31	°C/W				
$R_{\theta JA}$	Thermal Resistance Junction to Ambient (2s6p)	_	23	°C/W				
$R_{\theta JB}$	Thermal Resistance Junction to Board (2s2p)	_	15	°C/W				
$R_{\theta JB}$	Thermal Resistance Junction to Board (2s6p)	_	10	°C/W				
R _{θЈС_ВОТ}	Thermal Resistance Junction to Case Bottom (between the die and the solder pad on the bottom of the package)	_	1	°C/W				
$R_{\theta JP_TOP}$	Thermal Resistance Junction to Package Top (between package top and the junction temperature)	_	3	°C/W				

11 Revision History

Table 6. Revision history

Tuble of Technology Indian				
Document ID	Release date	Data sheet status	Change notice	Supersedes
FS8600_SDS v.1.1	20211123	Product	_	_
Modifications:	Initial Release			

FS8600_SDS

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Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
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Fail-safe system basis chip with multiple SMPSs and LDOs

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