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LED Drivers

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LED Drivers

Boost Converter LED Drivers

White LED Drivers with External FET

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6583MUV-A	2.7 to 22.0	Max 72 12series×6strings in parallel (V _F restrictions exist)	Max 43.0	1	PWM signal from the PWMPOW/PWMDRV terminal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD9486F	9 to 18	Max About 120 120series×1string in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP16
BD9411F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9413F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9483F	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP24
BD9483FV	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SSOP-B24
BD9416FS	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SSOP-A24
BD9479FV	9 to 35	Max About 96 12series×8strings in parallel	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SSOP-B40
BD9408FV	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 2.00	PWM signal Analog signal	Pin logic setting	SSOP-B14
BD9409F	11.5 to 35.0	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP16
BD9420F	9 to 35	Max 72 12series×6strings in parallel (V _F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP28

White LED Drivers with Integrated FET

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD60A00NUX	2.7 to 5.5	Max 10 10series×1string in parallel	Max 40.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD60A60NUX	2.7 to 5.5	Max 6 6series×1string in parallel	Max 26.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD65B60GWL	2.7 to 5.5	Max 16 8series×2strings in parallel	Max 28.5	1.1/0.6	I ² C BUS PWM signal Resistance switching at the ISET terminal	I ² C BUS + PWM	UCSP50L1 1.4×1.8, H=Max 0.55
BD6586MUV	2.7 to 5.5	Max 24 6series×4strings in parallel	Max 24.0	1	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD65D00MUV	6 to 27	Max 40 10series×4strings in parallel	Internal FET Max 40.0 External FET Max 80.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN028V5050
BD6142AMUV	4.2 to 27	Max 80 10series×8strings in parallel	Max 41.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN024V4040
BD9394EFV	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HTSSOP-B24
BD93942F	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP16
BD9470AFM	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HSOP-M28
BD9397EFV	9 to 35	Max 84 14series×6strings in parallel	Max 50.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting	HTSSOP-B40
BD9422EFV	9 to 35	Max 84 14series×6strings in parallel	Max 60.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting I ² C	HTSSOP-B40

Synchronous White LED Driver with Integrated FET

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6071HFN	2.7 to 5.5	Max 3 3series×1string in parallel	Max 14.0	1	PWM signal from EN terminal	—	HSO8

LED Camera Flash Driver

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Output Current	Switching Frequency (MHz)	Control Interface	Package (mm)
BD7757MWX	2.7 to 5.0	Max 2 1 to 2series×1string in parallel (V _F restrictions exist) (large current LED)	Max 5.1	0 to 1.5A	2	UPIC*2	USON014X3020

LED Drivers for LCD Backlight

Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD83A04EFV-M	4.5 to 48.0	Internal	4	Max 50	Max 120/ch	0.2 to 2.42	20,000 : 1@100Hz	-40 to +125	HTSSOP-B24	FSs	YES
New BD83A24MUF-M	4.5 to 48.0	Internal	4	Max 50	Max 120/ch	0.2 to 2.42	20,000 : 1@100Hz	-40 to +125	VQFN24FV4040	FSs	YES
New BD83A14EFV-M	4.5 to 48.0	External	4	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	-40 to +125	HTSSOP-B24	FSs	YES
New BD83A14MUF-M	4.5 to 48.0	External	4	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	-40 to +125	VQFN24FV4040	FSs	YES
Nano BD82A26MUF-M	3.0 to 48.0	External	6	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	-40 to +125	VQFN32FBV050	FSs	YES

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LED Drivers

LED Driver for Automotive Lamps

Buck Converter LED Drivers										
Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current (A)	Communication Control	Oscillation Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18395EFV-M	4.5 to 70.0	High/Low Beam, DRL/Position, Turn, Fog	1	Max 70	2	Standalone	0.1 to 1.0	HTSSOP-B20	FSs	YES
New BD18397EUV-M	5 to 65	High/Low Beam, DRL/Position, Turn, Fog	2	Max 60	Total 2.7 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48	FSp	YES
New BD18397RUV-M		High/Low Beam, DRL/Position, Turn, Fog	2	Max 60	Total 3.2 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48R	FSp	YES
New BD18398EUV-M		High/Low Beam, DRL/Position, Turn, Fog	3	Max 60	Total 2.7 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48	FSp	YES
New BD18398RUV-M		High/Low Beam, DRL/Position, Turn, Fog	3	Max 60	Total 4.8 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48R	FSp	YES

Boost Converter LED Drivers										
Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current	Dimmer Mode	Operating Temperature (C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18351EFV-M	4.5 to 65.0	High/Low Beam, DRL/Position, Turn, Fog	1	Max 65	Depend on Extra parts	PWM/DC	-40 to +125	HTSSOP-B24	FSs	YES
BD18353EFV-M	5 to 65					PWM/DC		HTSSOP-B20	FSs	YES
BD18353MUF-M						1, 2		VQFN20FV3535	FSs	YES

Buck-Boost LED Driver										
Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current	Dimmer Mode	Operating Temperature (C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8381AEFV-M	5 to 30	High/Low Beam/DRL	1	Max 50	Depend on Extra parts	PWM/DC	-40 to +125	HTSSOP-B28	FSs	YES

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Buck Converter LED Drivers


Buck Converter LED Drivers for DC-DC Converter type						
Part No.	Supply Voltage (V)	Switching Terminal Voltage (V)	Ron (Ω)	Operating Frequency (kHz)	Over-Current Protection	Package
BM531Q11	9 to 35	250	0.93 (Typ)	Max 440	✓	DIP7AK
BD94062F	10.5 to 35.0	—	—	Max 800	✓	SOP16

White LED Driver for PFC Direct Connection Current Resonance type						
Part No.	Supply Voltage (V)	Drive Method	Oscillation Frequency Variable (kHz)	Primary Brightness Control Method	Control Interface	Package
BD92111F	8 to 18	Half Bridge	30 to 200	PWM signal	Pin logic setting	SOP18

Buck-Boost LED Drivers

LED Drivers for LCD Backlight											
Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81A24EFV-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B28	FSs	YES
BD81A24MUV-M								-40 to +125	VQFN28SV5050	FSs	YES
BD81A24MUF-M								-40 to +125	VQFN28FV5050	FSs	YES
Nano BD82A16MUF-M	3.0 to 48.0	External	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	-40 to +125	HTSSOP-B28	FSs	YES
BD81A44EFV-M	-40 to +125							VQFN28SV5050	FSs	YES	
BD81A44MUV-M	-40 to +125							VQFN28SV5050	FSs	YES	
BD81A74EFV-M	4.5 to 35.0							-40 to +125	HTSSOP-B28	FSs	YES
BD81A74MUV-M	-40 to +125							VQFN28SV5050	FSs	YES	
BD81A76EFV-M	6							-40 to +125	HTSSOP-B30	FSs	YES

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LED Drivers for Lighting

AC-DC Controller ICs for LED Lighting							
Part No.	Supply Voltage (V)	Input AC Voltage (Vac)	Built-in PFC Function	Built-in MOSFET	LED Average Current (mA)	Switching Frequency (kHz)	Package
BM520Q15F	8.9 to 26.0	80 to 275	—	✓	up to 200	20 to 200	SOP8
BM521Q25F	8.9 to 25.0	80 to 275	✓	✓	up to 200	20 to 300	SOP8
BD521GOFJ	8.9 to 25.0	80 to 275	✓	—	—	20 to 300	SOP-J8

Inductorless (Charge Pump) LED Drivers

White LED Drivers									
Part No.	Supply Voltage (V)	No. of LEDs	Charge Pump Step-up Circuit			Primary Brightness Control Method	Control Interface	Package	
			Output Voltage (V)	Output Current (mA)	Pump Frequency				
BD1604MUV	2.7 to 5.5	1 to 4	Max 4.5	120	1MHz	PWM control via EN terminal Resistance switching at ISET terminal	Pin logic setting	VQFN016V3030	
BD2606MVV		1 to 6	Max 4.7	120	250kHz/1kHz	Built-in 64-step current DAC (0.5 to 32.0mA)	I ² C BUS	SQFN016V4040	

LED Driver for CIS

3ch Linear LED Driver for CIS Sensor							
Part No.	Supply Voltage (V)	ch	Output Voltage (V)	Output Current (mA)	Current Control	Operating Temperature (°C)	Package
BD2801MUV	3.3	3	6.6	Max 100	8-step	0 to +70	VQFN016V3030

Dynamic Indicator LED Bypass Switch (Matrix LED Controller)

Sequential lighting controller												
Part No.	Supply Voltage (V)	ch	Bypass Switch ON Resistance (mΩ)	Max Current (A)	Maximum Channel Voltage	Maximum LED String Voltage (V)	Maximum Number of IC Serial Connections	Lighting Mode	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18362EFV-M	5.5 to 60.0	8	230	1	9	48	2	Sequential/Hazard	-40 to +125	HTSSOP-B28	FSs	YES
BD18364EFV-M	5.5 to 45.0	8	300	0.8	13.5	depend on VIN voltage	1	Sequential/Hazard/Animation	-40 to +125	HTSSOP-B30	FSs	YES

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Constant Current/Serial-in Parallel-out LED Drivers

Parallel-out LED Drivers									
Part No.	Supply Voltage (V)	Number of LEDs	Constant Current Driver				Control Interface	Package	
			Max Current Setting Method	Max Current	Channel-to-Channel Matching	Brightness Control			
BD1754HFN	2.7 to 5.5	1 to 4 (Parallel Connection)	Resistance change at ISET terminal	32mA (at an ISET resistance of 120kΩ)	Max 3% (at 1V LED pin voltage)	Built-in 64-step current DAC	UPIC*2	HSO8	
BD2802GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC	I ² C BUS	VCSP85H2	
BD2812GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC/ Inductorless (Charge Pump)	I ² C BUS	VCSP85H3	

Parallel Output LED Drivers for Automotive												
Part No.	Supply Voltage (V)	Output Voltage (V)	Number of Output (ch)	Output Method	Max LED Current	Each Output Format	Other	Control Method	Max Clock Frequency	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD18330EFV-M	4.5 to 40.0	40	24	Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function/ Built-in DC-DC Control Function	UART	1Mbps	HTSSOP-B54	FSs	YES
Nano BD18332EUUV-M				Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function/ Built-in Feedback Output Function for DC-DC Control	UART	1Mbps	HTSSOP-C48	FSs	YES
Nano BD18333EUUV-M				Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function	UART	1Mbps	HTSSOP-C48	FSp	YES
New BD94130EFV-M	3.0 to 5.5	20	24	Constant Current	80mA/ch	4/6/8-line Switch Controllers	Built-in 4096-step PWM control for all channels	SPI	20MHz	HTSSOP-B54	FSs	YES
New BD94130MUF-M				Constant Current	80mA/ch	4/6/8-line Switch Controllers	Built-in 4096-step PWM control for all channels	SPI	20MHz	VQFN56FCV080	FSs	YES
BD12801MUF-M				Constant Current	130mA/ch	Built-in 256-step current DAC	Built-in 8192-step PWM control for all channels	SPI	5MHz	VQFN48FAV070	FSs	YES
BD2808MUV-M				Constant Current	50mA/ch	Built-in 64-step current DAC for RGB	Built-in 256-step PWM control for all channels	2-Wire Serial	1MHz	VQFN48MVCV070	FSs	YES
BD83812EFV-M				Open Drain	50mA/ch	ON/OFF	—	SPI	1.25MHz	HTSSOP-B20	FSs	YES
BD83816EFV-M				Open Drain	50mA/ch	ON/OFF	—	SPI	1.25MHz	HTSSOP-B24	FSs	YES
BD8388FV-M				Open Drain	50mA/ch	ON/OFF	—	SPI	1.25MHz	SSOP-B16	FSs	YES
BD8389FV-M				Open Drain	50mA/ch	ON/OFF	—	SPI	1.25MHz	SSOP-B20	FSs	YES

Dot Matrix LED Drivers												
Part No.	Supply Voltage (V)	LED Matrix	Max LED Current	Built-in Pattern		Matrix Data RAM	Mobile Light	PWM Dimming (step)	Current Setting (step)	Interface	Max Clock Frequency	Package (mm)
				Scroll	Slope							
BD26503GUL	2.7 to 5.5	7x17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	VCSP50L3 3.6x3.6, H=Max 0.55
BD26503KS2		7x17 119dots	30mA/Line	✓	✓	2pages	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52
BU16501KS2		8x16 128dots	42.5mA/Line	—	—	1page	—	64	16	I ² C BUS/SPI (2 address/—)	400kHz/13MHz	SQFP-T52

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LED Drivers

Constant Current/Serial-in Parallel-out LED Drivers

LED Source Drivers for Automotive															
Part No.	Supply Voltage (V)	Application	ch	Driver	Maximum Input Voltage (V)	Maximum Output Current (mA)	Dimmer Mode	Accuracy of Current (%)	ISINK Terminal LED Open Detection Voltage (V)	Disable LED Open Detection Voltage (V)	Energy Sharing Control Voltage (Typ) (V)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18340FV-M	4.5 to 19.0	DRL/Position/FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC (±5%)	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18341FV-M	4.5 to 19.0	DRL/Position/FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC (±12%)	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18342FV-M	4.5 to 19.0	DRL/Position/FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18343FV-M	4.5 to 19.0	DRL/Position/FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	External PWM signal	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	SSOP-B16	FSs	YES
BD18345EFV-M	4.5 to 19.0	DRL/Position/FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC	±3 (T _a =25 to 125°C)	—	variable	—	-40 to +125	HTSSOP-B20	FSs	YES
BD18326NUF-M	5.5 to 20.0	DRL/Position/FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T _a =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T _a =-40 to +150°C)	5.8	11.0	—	-40 to +150	VSON10FV3030	FSs	YES
BD18336NUF-M	5.5 to 20.0	DRL/Position/FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T _a =-40 to +150°C) ±5 (Output current: 240 to 600mA) (T _a =-40 to +150°C)	4.1	11.0	—	-40 to +150	VSON10FV3030	FSs	YES
BD18337EFV-M	5.5 to 20.0	DRL/Position/FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	11.0	2.0	-40 to +125	HTSSOP-B16	FSs	YES
BD18347AEFV-M	5.5 to 20.0	DRL/Position/FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	7.65	1.5	-40 to +125	HTSSOP-B16	FSs	YES
BD18347EFV-M	5.5 to 20.0	DRL/Position/FOG/Turn/Rear	4	Internal	40	150mA/ch	PWM	±10 (Output current: 50 to 100mA) (T _a =-40 to +125°C) ±5 (Output current: 100 to 150mA) (T _a =-40 to +125°C)	—	7.65	2.0	-40 to +125	HTSSOP-B16	FSs	YES
BD18327EFV-M	6.0 to 18.0	2 wheeler Turn Indicator	1	Internal	50	1.5A	PWM	Load Switch Controller	—	—	—	-40 to +125	HTSSOP-B20	FSs	YES
New BD8372UEFJ-M	5.5 to 40.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	200	High Current/Low Current	±3 (T _a =25°C)	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD8372HFP-M	5.5 to 40.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	200	High Current/Low Current	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES
BD8374EFJ-M	4.5 to 42.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HTSOP-J8	FSs	YES
BD8374HFP-M	4.5 to 42.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES
BD83732HFP-M	4.5 to 42.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T _a =25°C)	—	7.65	—	-40 to +125	HRP7	FSs	YES
BD83733HFP-M	4.5 to 42.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T _a =25°C)	—	11.0	—	-40 to +125	HRP7	FSs	YES
BD83740HFP-M	4.5 to 42.0	DRL/Position/FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T _a =25°C)	—	—	—	-40 to +125	HRP7	FSs	YES

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