

Application Compass for Products (AC4P) Automotive Power Supply & Network ICs



Power Supply ICs

Application heatmap



	Body	Infotainment	Powertrain	Chassis safety
	BCM, HVAC, dashboard	Multimedia, navigation, telematics	EMS, transmission	ADAS, EPS
Battery connected LDOs				
Post regulators				
Current sense LDOs / 24 V				
Trackers Sensor supply				
DC-DC converter Standalone				
DC-DC System supply				

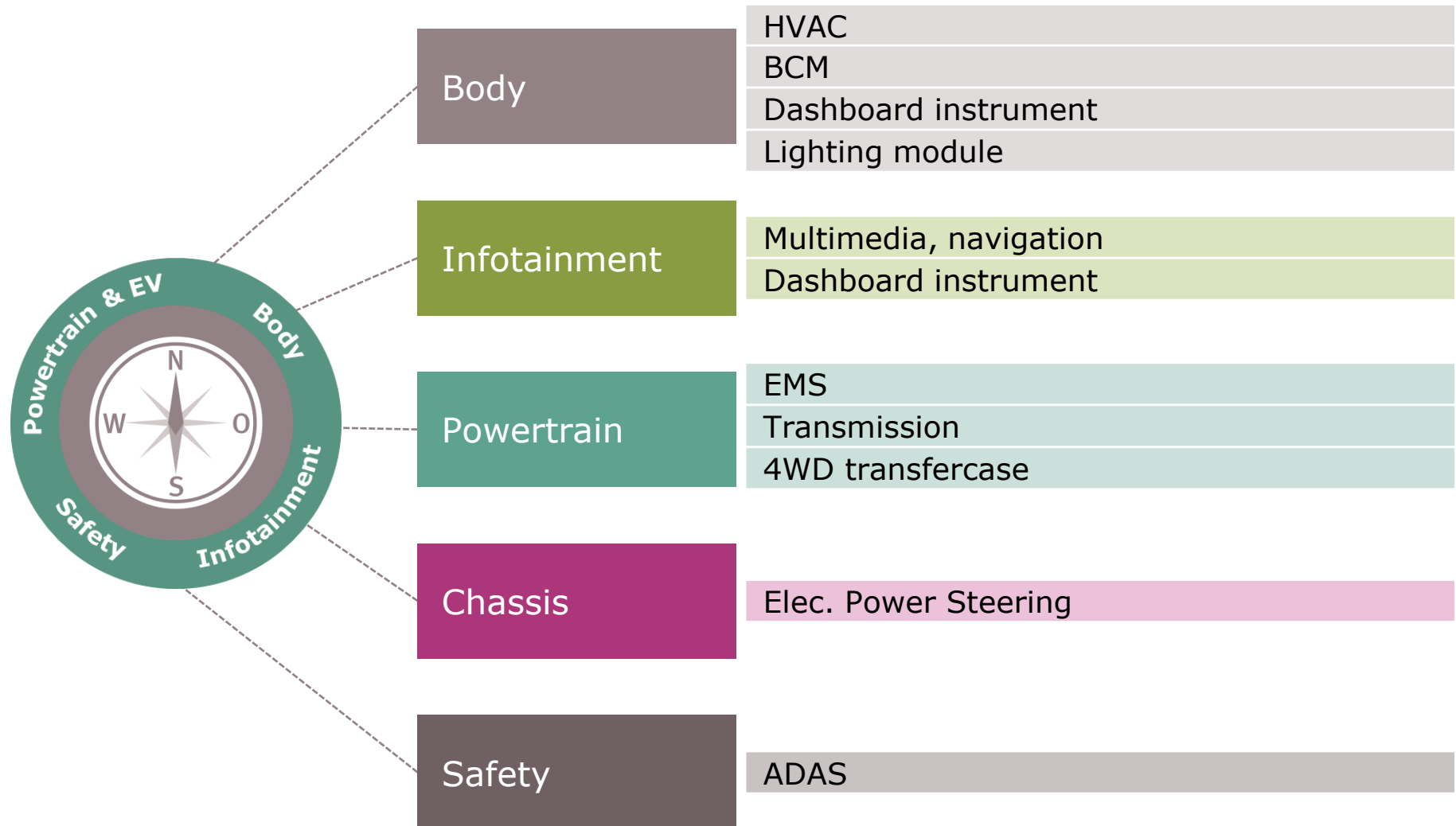
Network ICs

Application heatmap



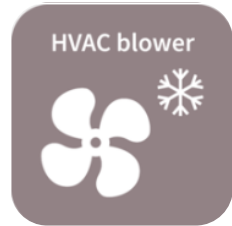
	Body	Infotainment	Powertrain	Chassis safety
	BCM, HVAC, dashboard	Multimedia, navigation, telematics	EMS, transmission	ADAS, EPS
CAN classical				
CAN FD				
CAN PN				
LIN				
FlexRay				

Application Compass for Products



ATV Body: HVAC

Linear voltage regulators (HFG-K)

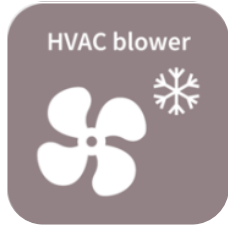


Application requirements	Infineon's value proposition	Customer benefits
High current up to 500 mA	Cranking, low drop out high power packages	Flexibility & family approach
Reset & watchdog	Digital, flexible reset & watchdog	Less ext. components, compact board design



Featured product	Description	V _{inmax}	Package
TLS850F0TA V50	V _{out} =5 V, I _Q =500 mA, 70 mV @ 100 mA enable, adj. reset, current activated watchdog, D ² PAK	40	D ² PAK
TLS850D0TA V50	V _{out} =5 V, I _Q =500 mA, 70 mV @ 100 mA enable, adj. reset, D ² PAK	40	D ² PAK
TLS850D0TE V50	V _{out} =5 V, I _Q =500 mA, 70 mV @ 100 mA enable, adj. reset, DPAK	40	DPAK
TLS820F0EL V50	V _{out} =5 V, I _Q =200 mA, 70 mV @ 100 mA enable, adj. reset, current activated watchdog, SSOP14	40	SSOP14
TLE4250-2G	ADJ, I _Q =50 mA, robust sensor supply IC, SCT595	40	SCT595

ATV Body: HVAC DC/DC-converters (HFG-S)

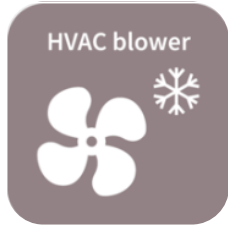


Application requirements	Infineon's value proposition	Customer benefits
High current up to 2 A	Wide portfolio	Flexibility & family approach
Reset & watchdog	Flexible reset adjust threshold	Freedom in μC selection



Device	Description	V_{inmax}	Package
TLF50281EL	Asynchronous step down converter, 5 V/500 mA; $I_q < 45 \mu\text{A}$; $f = 2,2 \text{ MHz}$; 100% duty cycle, features: EN, RES, WD	40	SSOP14
TLF50251EL	Asynchronous step down converter, 5 V/500 mA; $I_q < 45 \mu\text{A}$; $f = 2,2 \text{ MHz}$; 100% duty cycle, features: EN, RES	40	SSOP14
TLE8366EV	Asynchronous buck; ADJ/1.8 A; 100% duty cycle; features: EN, RES	40	DSO8-EP

ATV Body: HVAC IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Small PCB	Tiny packages	Compact board design
Battery wake-up capability	14-pin HS CAN bus wake up	Reducing system current consumption
Communication	Wide portfolio	Flexibility & family approach



Device	Description	Package
TLE6251-2G TLE6251-3G	14-pin HS CAN transceiver with bus wake up capability	DSO-14
TLE7259-3GE	High-end LIN transceiver	DSO-8
TLE7257SJ TLE7258SJ	Basic LIN transceiver	DSO-8

ATV Body: BCM

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Low quiescent current	Down to 5 μ A	Meeting the ECU level current consumptions
High current up to 500 mA	Cranking, low drop out High power packages	Flexibility & family approach
Reset & watchdog	Digital, flexible reset & watchdog	Less ext. components, space savings & BOM \$



Device	Description	V _{inmax}	Package
TLE4678-2LD	V _{out} =5 V, I _Q =180 mA/200 mA adj. reset, load dependent watchdog, reverse polarity protection	45	SSOP14 TSON10
TLS805x	5 V/3.3 V, 50 mA, EN, RES	40	DSO8-EP, TSON10
TLS810x	5 V/3.3 V, 100 mA, EN, RES	40	DSO8-EP, TSON10
TLS820x	5 V/3.3 V, 200 mA, EN, RES, WD	40	SSOP14
TLS850x	5 V/3.3 V, 500 mA, EN, RES, WD	40	DPAK, D ² PAK

ATV Body: BCM

DC/DC-converters (HFG-S)



Application requirements	Infineon's value proposition	Customer benefits
Low quiescent current	Down to 45 μ A	Meeting the ECU level current consumptions
High current up to 500 mA	Cranking, low drop out High power packages	Flexibility & family approach
Reset & watchdog	Digital, flexible reset & watchdog	Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLF50281EL	Asynchronous low-I _q -buck; 5 V/500 mA; I _q <45 μ A; f=2,2 MHz; 100% DC; features: EN, RES, WD	40	SSOP14
TLF50251EL	Asynchronous low-I _q -buck; 5 V/500 mA; I _q <45 μ A; f=2,2 MHz; 100% DC; features: EN, RES	40	SSOP14
TLF50211EL	Asynchronous low-I _q -buck; 5 V/500 mA; I _q <45 μ A; f=2,2 MHz; 100% DC; features: EN	40	SSOP14
TLE8386-2EL	Smart step-up controller for start-stop applications	40	SSOP14

ATV Body: BCM IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication
Ease of use	Worldwide OEM approval	Function & pin-compatible to devices on the market
Efficiency	Wake up receiver supplied by V_{IO} pin	Lowest quiescent current in sleep-mode



Device	Description	Package
TLE7250VSJ TLE7250VLE	CAN FD 2 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9250VSJ TLE9250VLE	CAN FD 5 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9222PX TLE9222LC	14-pin FlexRay transceiver	TSSOP-14 TSON-14
TLE7258SJ TLE7258LE	Basic LIN transceiver	DSO-8 TSON-8
TLE7268SK TLE7268LC	Dual LIN transceiver	DSO-14 TSON-14

ATV Body: Dashboard

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Low quiescent current	Down to 40 μ A	Meeting the ECU level current consumptions
High current	High current pre-regulator up to 500 mA	Stability in cranking, low RDSO _N
Multiple power rails (5 V, 3.3 V, 2,5 V, etc.)	Complete portfolio packages & power ranges	One stop shop



Device	Description	V _{inmax}	Package
TLF80511x	V _{out} =5 V, I _Q =400 mA, 38 μ A Available in 3.3 V version	40	D ² PAK DPAK DSO8
TLS850x	5 V/3.3 V, 500 mA, EN, RES, WD	40	DPAK, D ² PAK
TLE42754D	V _{out} =5 V, I _Q =450 mA, reset, D ² PAK	40	D ² PAK DPAK SSOP14
TLS710B0EJ V50	V _{out} =5 V, I _Q =100 mA, 40 μ A fits for 2wheelen dashboard	40	DSO8-EP
TLS715B0EJ V50	V _{out} =5 V, I _Q =150 mA, 40 μ A fits for 2wheelen dashboard	40	DSO8-EP

ATV Body: Dashboard DC/DC-converters (HFG-S)



Application requirements	Infineon's value proposition	Customer benefits
Low quiescent current	Down to 45 μ A	Meeting the ECU level current consumptions
High current (up to 3A)	High current pre-regulator up to 10 A	Stability in cranking, low RDSO _N
Multiple power rails (5V, 3.3 V, 2,5 V, etc.)	Complete portfolio packages & power ranges	One stop shop



Device	Description	V _{inmax}	Package
TLF51801ELV	Synchronous buck controller up-to 10 A ; features: EN, RES, WD fits for high end / full display dashboard or general high power	40	SSOP14
TLF50281EL	Asynchronous low-I _q -buck; 5 V/ 500 mA ; I _q <45 μ A; f=2,2 MHz; 100% DC; features: EN, RES, WD	40	SSOP14
TLE8366EVx	Asynchronous buck; ADJ/1.8 A; 100% duty cycle; features: EN	40	DSO8-EP

ATV Body: Dashboard IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Efficiency	Wake up receiver supplied by V_{IO} pin	Lowest quiescent current in sleep-mode
Technology	Bus wake up and 14-pin HS CAN	Sleep mode with remote wake-up function
Flexibility	Up to 2 MBit/s bandwidth	Large CAN networks, high data transmission rates



Device	Description	Package
TLE6251-2G TLE6251-3G	14-pin HS CAN transceiver with bus wake up capability	DSO-14
TLE7251VSJ TLE7251VLE	CAN-FD 2 MBits/s transceiver with bus wake and V_{IO} for 3.3 & 5 V interface	DSO-8 TSON-8
TLE7259-3GE	High-end LIN transceiver	DSO-8
TLE7257SJ TLE7258SJ	Basic LIN transceiver	DSO-8

ATV Body: Lighting

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Low quiescent current	Down to 5 μ A	Meeting the ECU level current consumptions
High current up to 100 mA	Cranking, low drop out high power packages	Flexibility & family approach
Enable & reset	Digital, flexible reset	Less ext. components, space savings & BOM \$



Device	Description	Package
TLS805x	5 V/3.3 V, 50 mA, EN, RES	DS08 TSON10
TLS810x	5 V/3.3 V, 100 mA, EN, RES	DS08 TSON10

ATV Infotainment: Multimedia, navigation

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Smallest package for current sense LDO's	Tiny leadless TSON10 package	Ultra small PCB design
Very low stand-by current	Quiescent current down to 5 μ A	System level efficiency
Withstand battery voltage with post regulator	Input voltage range up to 20 V@ post regulators	System fail safe of DC/DC fault & DIY robustness



Device	Description	V _{inmax}	Package
TLE42764x	Adj. LDO with 400 mA, used for analog circuits	45	TO263 TO252
TLF4277-2EL TLF4277-2LD	Enable, Adjustable current limitation, integrated current sense with 10% accuracy, V _{adj} =5 V-45 V, digital error pin	45	SSOP14 EP TSON10
TLS805BB1SJV TLS805D1LDV50	Low quiescent LDO (5 μ A) for standby 50 mA, V _{out} =5 V and adj available	45	DSO8 TSON10
TLS203B0EJ V33 TLS205B0EJ V33	300 mA 5 V,3.3 V, ADJ post LDO with EN 500 mA 5 V,3.3 V, ADJ post LDO with EN	20	DSO8-EP TSON10
TLF1963TB TLF1963TE	1500 mA post LDO with ADJ V _{out}	20	D ² PAK DPAK

ATV Infotainment: Multimedia, navigation DC/DC-converters (HFG-S)



Application requirements	Infineon's value proposition	Customer benefits
Wide range of loads	Dedicated for specific load (USB charger, stand-by, ...)	AEC Q100 & long-term availability
Automotive grade	Designed by ATV grade (robustness, T150°C, ...)	Improved thermal Mgmt & better FIT rate
Key trend: USB charger	Reference design available	Ready to use, fast time to market



Device	Description	V _{inmax}	Package
TLF51801ELV	Synchronous buck controller up-to 10 A; features: EN, RES, WD general high power pre-regulator, USB supply, wireless charging	40	SSOP14
TLF50281EL	Asynchronous low-I _q -buck; 5 V/500 mA; I _q <45 μA; f=2,2 MHz; 100% DC; features: EN, RES, WD	40	SSOP14
TLE8366EVx	Asynchronous buck; ADJ/1.8 A; 100% duty cycle; features: EN	40	DSO8-EP
TLE8386-2	Smart step-up controller for start-stop applications	40	SSOP14

ATV Infotainment: Multimedia, navigation IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Technology	Bus wake up and 14-pin HS CAN	Sleep mode with remote wake-up function
Flexibility	Up to 1 MBit/s bandwidth	HS CAN networks, high data transmission rates



Device	Description	Package
TLE6251-2G TLE6251-3G	14-pin HS CAN transceiver with bus wake-up capability	DSO-14
TLE7258D	Serial line transceiver for MOST-bus Error Correction Line (ECL) with wake-up and protection features. Up to 20 kbps data transmission rates. Sleep mode <math>< 10 \mu\text{A}</math>	TSON-8

ATV Infotainment: Telematics, eCall

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Fault monitoring	Integrated diagnostic & protection features	System reliability & better FIT rate
Small PCB	Smallest current sense LDO in the market	50% board space saving



Device	Description	V _{inmax}	Package
TLE42764x	Adj. LDO with 400 mA, used for analog circuits	45	TO263 TO252
TLF4277-2EL TLF4277-2LD	Enable, adjustable current limitation, integrated current sense with ±5% accuracy, V _{adj} =5 V-45 V, digital error pin	45	SSOP14 EP TSON10
TLS805B1LD V50	Low quiescent LDO (5 µA) for standby 50 mA, V _{out} =5 V and adj available	45	DSO8 TSON10
TLS203B0EJ V33 TLS205B0EJ V33	300 mA 5 V,3.3 V, ADJ Post LDO with EN 500 mA 5 V,3.3 V, ADJ Post LDO with EN	20	DSO8-EP TSON10

ATV Infotainment: Telematics, eCall IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Safety – FlexRay	Up to 10 Mbit/s	Fast and safe bus communication
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication



Device	Description	Package
TLE7250VSJ TLE7250VLE	CAN FD 2 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9250VSJ TLE9250VLE	CAN FD 5 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8

ATV Powertrain: EMS

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Input voltage range from 3 V	Suitable for very low cranking	Extreme robust
Ultra low quiescent current	Efficiency: save battery lifetime	Meeting the ECU level current consumptions
Excellent transient response	Harsh environment & less external components	



Device	Description	V _{inmax}	Package
TLE4291E	V _{out} =5 V, I _Q =450 mA; enable, reset, watchdog, reverse polarity protection	45	SSOP14
TLE4271-2	V _{out} =5 V, I _Q =550 mA; enable, reset, watchdog, reverse polarity protection	45	TO263
TLS850F0TA V50	V _{out} =5 V, I _Q =500 mA, enable, reset, watchdog, V _{inmin} =3.0 V	40	TO263
TLS850D0TA V50	V _{out} =5 V, I _Q =450 mA, enable, reset, V _{inmin} =3.0 V	40	TO263
TLS820F0EL V50 TLS820F1EL V50	V _{out} =5 V, I _Q =200 mA, enable, reset, watchdog, V _{inmin} =3.0 V	40	SSOP14

ATV Powertrain: EMS

DC/DC-converters (HFG-S)



Application requirements

Energy efficiency

Infineon's value proposition

Efficiency: save battery lifetime

Customer benefits

Meeting the ECU level current consumptions



Device	Description	V _{inmax}	Package
TLE7368-2E TLE7368-3E TLE7368E	Buck PreReg (5 V5 @ 2.5 A); LDOs: 5 V @ 700 mA & 3.3 V/2.6 V @ 500 mA; LDO-controller: 1 V2/1 V3/1 V5; 2x trackers 5 V @ 50 mA and 105 mA; features: EN, RES, window-WD	45	DSO36 EP
TLF35584QVVS1 TLF35584QVVS2 TLF35584QKVS1 TLF35584QKVS2	Safety system-supply (ISO26262): Boost/buck-PreReg (5 V7 @ 1.3 A); µC-LDO (3 V3/5 V @ 600 mA); REF--LDO (5 V @ 150 mA); 2x tracker (5 V @ 150 mA); TRX-LDO (5 V @ 200 mA); StandBy-LDO (3 V3/5 V @ 10 mA); features: SPI; timer/counter; RES & Interrupt; UV/OV-monitoring; Q/A- & window-WD; safe-state-controller	40	VQFN48 EP LQFP64 EP

ATV Powertrain: EMS IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication
FlexRay	Up to 10 MBit/s bandwidth	Safety & real time applications
Supply	Automatically adaption to interface level	Support of 3.3 V & 5 V μ C



Device	Description	Package
TLE7250SJ TLE7250LE	CAN FD 2 MBit/s transceiver without bus wake and 5 V I/O interface	DSO-8 TSON-8
TLE9250SJ TLE9250LE	CAN FD 5 MBit/s transceiver without bus wake and 5 V I/O interface	DSO-8 TSON-8
TLE9221SX	16-pin FlexRay 10 Mbit/s transceiver	SSOP-16
TLE9222PX	14-pin FlexRay 10 Mbit/s transceiver	TSSOP-14

ATV Powertrain: EMS Sensor Supply ICs (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Higher tracker accuracy	$\pm 0.1\%$	Perfect fit for pressure sensors
High current demand by huge number of sensors	Up to 400 mA	Complete portfolio
Small PCB	SCT595: 3 mm x 2.5 mm TSON-10: 3.3 mm x 3.3 mm	Compact board design



Device	Description	V _{inmax}	Package
TLE4250-2G	ADJ, I _Q =50 mA , $\pm 0.5\%$ output accuracy	40	SCT595
TLE4254GS TLE4254GA	ADJ, I _Q =70 mA , $\pm 0.1\%$ output accuracy	40	DSO8, DSO8-EP
TLS115x	ADJ, I _Q =150 mA , $\pm 0.1\%$ output accuracy	40	DSO8-EP TSON10
TLE4252x	ADJ, I _Q =250 mA , $\pm 0.2\%$ output accuracy	40	DPAK
TLE4253x	ADJ, I _Q =250 mA , $\pm 0.2\%$ output accuracy	40	DSO8 DSO8-EP
TLE4251x	ADJ, I _Q =400 mA , $\pm 0.2\%$ output accuracy	40	TO252, TO263

ATV Powertrain: Transmission

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
High current up to 500 mA	Cranking, low drop out high power packages	Flexibility & family approach
Reset & watchdog	Digital, flexible reset & watchdog	Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLE4291E	V _{out} =5 V, I _Q =450 mA; enable, reset, watchdog, reverse polarity protection	45	SSOP14
TLE4271-2	V _{out} =5 V, I _Q =550 mA; enable, reset, watchdog, reverse polarity protection	45	TO263
TLS850F0TA V50	V _{out} =5 V, I _Q =500 mA, enable, reset, watchdog, V _{inmin} =3.0 V	40	TO263
TLS850D0TA V50	V _{out} =5 V, I _Q =450 mA, enable, reset, V _{inmin} =3.0 V	40	TO263

ATV Powertrain: Transmission DC/DC-converters (HFG-S)



Application requirements

Safety

Infineon's value proposition

UV/OV monitoring, window watchdog, Q&A

Customer benefits

Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLE7368-2E TLE7368-3E TLE7368E	Buck PreReg (5 V5 @ 2.5 A); LDOs: 5 V @ 700 mA & 3.3 V/2.6 V @ 500 mA; LDO-controller: 1 V2/1 V3/1 V5; 2x trackers 5 V @ 50 mA and 105 mA; features: EN, RES, window-WD	45	DSO36 EP
TLF35584QVVS1 TLF35584QVVS2 TLF35584QKVS1 TLF35584QKVS2	Safety system-supply (ISO26262): Boost/buck-PreReg (5 V7 @ 1.3 A); μC-LDO (3 V3/5 V @ 600 mA); REF--LDO (5 V @ 150 mA); 2x tracker (5 V @ 150 mA); TRX-LDO (5 V @ 200 mA); StandBy-LDO (3 V3/5 V @ 10 mA); features: SPI; timer/counter; RES & interrupt; UV/OV-monitoring; Q/A- & window-WD; safe-state-controller	40	VQFN48 EP -- LQFP64 EP

ATV Powertrain: Transmission IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication
FlexRay	Up to 10 MBit/s bandwidth	Safety & real time applications
Supply	Automatically adaption to interface level	Support of 3.3 V & 5 V μ C



Device	Description	Package
TLE7250SJ TLE7250LE	CAN FD 2 Mbit/s transceiver without bus wake and 5 V I/O interface	DSO-8 TSON-8
TLE9250SJ TLE9250LE	CAN FD 5 Mbit/s transceiver without bus wake and 5 V I/O interface	DSO-8 TSON-8
TLE9221SX	16-pin FlexRay 10 Mbit/s transceiver	SSOP-16
TLE9222PX	14-pin FlexRay 10 Mbit/s transceiver	TSSOP-14

ATV Powertrain: Transmission DC/DC-converters (HFG-S)



Application requirements

Safety

Infineon's value proposition

UV/OV monitoring, window watchdog, Q&A

Customer benefits

Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLF35584QVVS1 TLF35584QVVS2 TLF35584QKVS1 TLF35584QKVS2	Safety system-supply (ISO26262): Boost/buck-PreReg (5 V7 @ 1.3 A); μC-LDO (3 V3/5 V @ 600 mA); REF--LDO (5 V @ 150 mA); 2x tracker (5 V @ 150 mA); TRX-LDO (5 V @ 200 mA); StandBy-LDO (3 V3/5 V @ 10 mA); features: SPI; timer/counter; RES & interrupt; UV/OV-monitoring; Q/A- & window-WD; safe-state-controller;	40	VQFN48 EP -- LQFP64 EP

ATV Powertrain: 4WD transference IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Safety – FlexRay	Up to 10 Mbit/s	Fast and safe bus communication
Robust & tiny	Small footprint packages	Smallest FlexRay in the market (TSON-14)
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication



Device	Description	Package
TLE7250VSJ TLE7250VLE	CAN FD 2 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9250VSJ TLE9250VLE	CAN FD 5 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9222PX TLE9222LC	14-pin FlexRay transceiver	TSSOP-14 TSON-14

ATV Chassis: Elec. Power Steering

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Higher tracker accuracy	$\pm 0.1\%$	Perfect fit for pressure sensors
Safety	Enable, reset & watchdog	Fully integrated feature set
Robust & tiny	Harsh environment & less external components	Compact board design



Device	Description	V _{inmax}	Package
TLE4473G V53	V _{out} =5 V & 3.3 V, En, Res, watchdog, 500 mA, V _{inmin} =3.0 V	45	DSO-12
TLE4473G V55-2	V _{out} =5 V & 5 V, En, Res, watchdog, 500 mA, V _{inmin} =3.0 V	45	DSO-12
TLS850F0TA V50	V _{out} =5 V, I _Q =500 mA, enable, reset, watchdog, V _{inmin} =3.0 V	40	TO263
TLS850D0TA V50	V _{out} =5 V, I _Q =450 mA, enable, reset, V _{inmin} =3.0 V	40	TO263
TLE4250-2G	ADJ, I _Q =50 mA, $\pm 0.5\%$ output accuracy	40	SCT595
TLE4254GS TLE4254GA	ADJ, I _Q =70 mA, $\pm 0.1\%$ output accuracy	40	DSO8, DSO8-EP

ATV Chassis: Elec. Power Steering Sensor Supply ICs (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Higher tracker accuracy	$\pm 0.1\%$	Perfect fit for pressure sensors
High current demand by huge number of sensors	Up to 400 mA	Complete portfolio
Small PCB	SCT595: 3 mm x 2.5 mm TSON-10: 3.3 mm x 3.3 mm	Compact board design



Device	Description	V _{inmax}	Package
TLE4250-2G	ADJ, I _Q =50 mA , $\pm 0.5\%$ output accuracy	40	SCT595
TLE4254GS TLE4254GA	ADJ, I _Q =70 mA , $\pm 0.1\%$ output accuracy	40	DSO8, DSO8-EP
TLS115	ADJ, I _Q =150 mA , $\pm 0.1\%$ output accuracy	40	DSO8-EP TSON10
TLE4252x	ADJ, I _Q =250 mA , $\pm 0.2\%$ output accuracy	40	DPAK
TLE4253x	ADJ, I _Q =250 mA , $\pm 0.2\%$ output accuracy	40	DSO8 DSO8-EP
TLE4251x	ADJ, I _Q =400 mA , $\pm 0.2\%$ output accuracy	40	TO252, TO263

ATV Chassis: Elec. Power Steering DC/DC-converters (HFG-S)



Application requirements

Higher tracker accuracy

Infineon's value proposition

Enable, reset and window watchdog

Customer benefits

Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLE7368-2E TLE7368-3E TLE7368E	Buck PreReg (5 V5 @ 2.5 A); LDOs: 5 V @ 700 mA & 3.3 V/2.6 V @ 500 mA; LDO-controller: 1 V2/1 V3/1 V5; 2x trackers 5 V @ 50 mA and 105 mA; features: EN, RES, window-WD	45	DSO36 EP
TLF35584QVVS1 TLF35584QVVS2 TLF35584QKVS1 TLF35584QKVS2	Safety system-supply (ISO26262): Boost/buck-PreReg (5 V7 @ 1.3 A); µC-LDO (3 V3/5 V @ 600 mA); REF--LDO (5 V @ 150 mA); 2x tracker (5 V @ 150 mA); TRX-LDO (5 V @ 200 mA); StandBy-LDO (3 V3/5 V @ 10 mA); features: SPI; timer/counter; RES & interrupt; UV/OV-monitoring; Q/A- & window-WD; safe-state-controller	40	VQFN48 EP -- LQFP64 EP

ATV Chassis: Elec. Power Steering IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Safety – FlexRay	Up to 10 Mbit/s	Fast and safe bus communication
Robust & tiny	Small footprint packages	Smallest FlexRay in the market (TSON-14)
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication



Device	Description	Package
TLE7250VSJ TLE7250VLE	CAN FD 2 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9250VSJ TLE9250VLE	CAN FD 5 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9222PX TLE9222LC	14-pin FlexRay transceiver	TSSOP-14 TSON-14

ATV Safety: ADAS

Linear voltage regulators (HFG-K)



Application requirements	Infineon's value proposition	Customer benefits
Low noise	Suitable for radar based ADAS systems	Improved radar performance
Small PCB	SCT595: 3 mm x 2.5 mm TSON-10: 3.3 mm x 3.3 mm	Compact board design
Flexibility	Supply of μ C, camera sensors, CAN, RAM & others	Broad portfolio



Device	Description	V_{inmax}	Package
TLS202A1x TLS202B1x	V_{out} =adj. or 3.3 V or 5 V, I_Q =150 mA; enable		SCT595
TLS203B0EJx TLS203B0LDx	V_{out} =adj. or 3.3 V or 5 V, I_Q =300 mA; enable		DSO8 EP TSON10
TLS205B0x	V_{out} =adj. or 3.3 V or 5 V, I_Q =500 mA; enable		DSO8 EP TSON10
TLS208D1x	V_{out} =adj. or 3.3 V, I_Q =800 mA; enable; reset		DSO8 EP TSON10

ATV Safety: ADAS DC/DC-converters (HFG-S)



Application requirements

Safety

Infineon's value proposition

Enable, reset & watchdog

Customer benefits

Less ext. components, space savings



Device	Description	V _{inmax}	Package
TLF51801ELV	Synchronous buck controller up-to 10 A; Features: EN, RES, WD High current pre-regulator	40	SSOP14
TLF50281EL	Asynchronous low-I _q -buck; 5 V/500 mA; I _q <45 μA; f=2,2 MHz; 100% DC; features: EN, RES, WD	40	SSOP14
TLE8366EVx	Asynchronous buck; ADJ/1.8 A; 100% duty cycle; features: EN	40	DSO8-EP
TLE8386-2EL	Smart step-up controller for start-stop applications	40	SSOP14

ATV Safety: ADAS IVN transceivers (HFG-L)



Application requirements	Infineon's value proposition	Customer benefits
Safety – FlexRay	Up to 10 Mbit/s	Fast and safe bus communication
Robust & tiny	Small footprint packages	Smallest FlexRay in the market (TSON-14)
CAN-FD	Up to 5 MBit/s bandwidth	Faster & robust communication



Device	Description	Package
TLE7250VSJ TLE7250VLE	CAN FD 2 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9250VSJ TLE9250VLE	CAN FD 5 MBit/s transceiver without bus wake and V_{IO} (3.3 V & 5 V interface)	DSO-8 TSON-8
TLE9222PX TLE9222LC	14-pin FlexRay transceiver	TSSOP-14 TSON-14



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