



# Industrial standard products

Pocket guide

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## Linear voltage regulator

| Product        | Output current<br>[mA] | Temperature range<br>[°C] | Output voltage<br>[V] | Quiescent current<br>[µA] | Enable<br>(Y/N) | Reverse polarity protection | Dropout voltage<br>[mV] | Maximum input voltage (range)<br>[V] | Accuracy output voltage<br>[%] | Minimum output capacitor for stability<br>[µF] | Pin to pin     | Compatible to | Package     |
|----------------|------------------------|---------------------------|-----------------------|---------------------------|-----------------|-----------------------------|-------------------------|--------------------------------------|--------------------------------|--|----------------|---------------|-------------|
| IFX1963TBV     | 1,500                  | -40 ... 125               | Adj.                  | 80,000                    | Y               | Y                           | 340                     | 20                                   | 1.5                            | 10.0   | LT1963, TL1963 |               | PG-TO263-5  |
| IFX1963TEV     | 1,500                  | -40 ... 125               | Adj.                  | 80,000                    | Y               | Y                           | 340                     | 20                                   | 1.5                            | 10.0   | LT1963, TL1963 |               | PG-TO252-5  |
| IFX27001TF V   | 1,000                  | -40 ... 125               | Adj.                  | 100                       | N               | N                           | 1,300                   | 40                                   | 3.0                            | 10.0   |                | xx317         | PG-TO252-3  |
| IFX27001TF V33 | 1,000                  | -40 ... 125               | 3.3                   | 800                       | N               | N                           | 1,300                   | 40                                   | 3.0                            | 10.0   |                | xx317         | PG-TO252-3  |
| IFX27001TF V50 | 1,000                  | -40 ... 125               | 5.0                   | 100                       | N               | N                           | 1,300                   | 40                                   | 3.0                            | 10.0   |                | xx317         | PG-TO252-3  |
| IFX7805ABTC    | 1,000                  | -40 ... 125               | 5.0                   | 2,000                     | N               | N                           | 2,000                   | 35                                   | 4.0                            | 1.0  | xx78           | xx317         | PG-TO263-3  |
| IFX7805ABTF    | 1,000                  | -40 ... 125               | 5.0                   | 2,000                     | N               | N                           | 2,000                   | 35                                   | 4.0                            | 1.0  | xx78           | xx317         | PG-TO252-3  |
| IFX7805ABTS    | 1,000                  | -40 ... 125               | 5.0                   | 2,000                     | N               | N                           | 2,000                   | 35                                   | 4.0                            | 1.0  | xx78           | xx317         | PG-TO220-3  |
| IFX8117ME V    | 1,000                  | 0 ... 125                 | Adj.                  | 5,000                     | N               | N                           | 1,200                   | 20                                   | 2.0                            | 10.0   | xx1117         |               | PG-SOT223   |
| IFX8117ME V50  | 1,000                  | 0 ... 125                 | 5.0                   | 5,000                     | N               | N                           | 1,200                   | 20                                   | 2.0                            | 10.0   | xx1117         |               | PG-SOT223   |
| IFX1117ME V    | 800                    | 0 ... 125                 | Adj.                  | 5,000                     | N               | N                           | 1,100                   | 20                                   | 2.0                            | 10.0   | xx1117         |               | PG-SOT223   |
| IFX1117ME V33  | 800                    | 0 ... 125                 | 3.3                   | 5,000                     | N               | N                           | 1,100                   | 20                                   | 2.0                            | 10.0   | xx1117         |               | PG-SOT223   |
| IFX1763XEJ V   | 500                    | -40 ... 125               | Adj.                  | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-DSO-8-EP |
| IFX1763XEJ V33 | 500                    | -40 ... 125               | 3.3                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-DSO-8-EP |
| IFX1763XEJ V50 | 500                    | -40 ... 125               | 5.0                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-DSO-8-EP |
| IFX1763LD V    | 500                    | -40 ... 125               | Adj.                  | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-TSON-10  |
| IFX1763LD V33  | 500                    | -40 ... 125               | 3.3                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-TSON-10  |
| IFX1763LD V50  | 500                    | -40 ... 125               | 5.0                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.5                            | 3.3  | LT1763         |               | PG-TSON-10  |
| IFX78M05ABTF   | 500                    | -40 ... 125               | 5.0                   | 2,000                     | N               | N                           | 2,000                   | 35                                   | 4.0                            | 1.0  | xx78           | xx317         | PG-TO252-3  |
| IFX25001ME V25 | 400                    | -40 ... 125               | 2.5                   | 100                       | N               | Y                           | 1,000                   | 45                                   | 4.0                            | 22.0   |                |               | PG-SOT223   |
| IFX25001ME V33 | 400                    | -40 ... 125               | 3.3                   | 100                       | N               | Y                           | 700                     | 45                                   | 4.0                            | 22.0   |                |               | PG-SOT223   |
| IFX25001TC V50 | 400                    | -40 ... 125               | 5.0                   | 100                       | N               | Y                           | 250                     | 45                                   | 4.0                            | 22.0   |                | xx78          | PG-TO263-3  |
| IFX25001TF V33 | 400                    | -40 ... 125               | 3.3                   | 100                       | N               | Y                           | 700                     | 45                                   | 4.0                            | 22.0   |                | xx78          | PG-TO252-3  |
| IFX25001TF V50 | 400                    | -40 ... 125               | 5.0                   | 100                       | N               | Y                           | 250                     | 45                                   | 4.0                            | 22.0   |                | xx78          | PG-TO252-3  |
| IFX25001TS V50 | 400                    | -40 ... 125               | 5.0                   | 100                       | N               | Y                           | 250                     | 45                                   | 4.0                            | 22.0   |                | xx78          | PG-TO220-3  |
| IFX25401TB V   | 400                    | -40 ... 125               | Adj.                  | 100                       | Y               | Y                           | 250                     | 45                                   | 2.0                            | 22.0   |                |               | PG-TO263-5  |
| IFX25401TB V50 | 400                    | -40 ... 125               | 5.0                   | 100                       | Y               | Y                           | 250                     | 45                                   | 2.0                            | 22.0   |                |               | PG-TO263-5  |
| IFX25401TE V   | 400                    | -40 ... 125               | Adj.                  | 100                       | Y               | Y                           | 250                     | 45                                   | 2.0                            | 22.0   |                |               | PG-TO252-5  |
| IFX25401TE V50 | 400                    | -40 ... 125               | 5.0                   | 100                       | Y               | Y                           | 250                     | 45                                   | 2.0                            | 22.0   |                |               | PG-TO252-5  |
| IFX24401EL V50 | 300                    | -40 ... 125               | 5.0                   | 20                        | Y               | N                           | 250                     | 45                                   | 2.0                            | 0.47   |                |               | PG-SSOP-14  |
| IFX24401TE V50 | 300                    | -40 ... 125               | 5.0                   | 20                        | Y               | N                           | 250                     | 45                                   | 2.0                            | 0.47   |                |               | PG-TO252-5  |
| IFX54441EJV    | 300                    | -40 ... 125               | Adj.                  | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-DSO-8-EP |
| IFX54441EJ V33 | 300                    | -40 ... 125               | 3.3                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-DSO-8-EP |
| IFX54441EJ V50 | 300                    | -40 ... 125               | 5.0                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-DSO-8-EP |
| IFX54441LD V   | 300                    | -40 ... 125               | Adj.                  | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-TSON-10  |
| IFX54441LD V33 | 300                    | -40 ... 125               | 3.3                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-TSON-10  |
| IFX54441LD V50 | 300                    | -40 ... 125               | 5.0                   | 30                        | Y               | Y                           | 300                     | 20                                   | 2.0                            | 3.3  |                |               | PG-TSON-10  |
| IFX54211MB V33 | 150                    | -40 ... 125               | 3.3                   | 50                        | Y               | N                           | 290                     | 18                                   | 3.0                            | 1.0  |                |               | PG-SCT595   |
| IFX2931G V33   | 100                    | -40 ... 125               | 3.3                   | 400                       | N               | Y                           | 850                     | 28                                   | 5.0                            | 10.0   | xx2931         |               | PG-DSO-8    |
| IFX2931G V50   | 100                    | -40 ... 125               | 5.0                   | 400                       | N               | Y                           | 300                     | 28                                   | 5.0                            | 10.0   | xx2931         |               | PG-DSO-8    |
| IFX4949SJ      | 100                    | -40 ... 125               | 5.0                   | 180                       | N               | N                           | 300                     | 40                                   | 1.0                            | 4.7  | xx4949         |               | PG-DSO-8    |
| IFX21004TN V51 | 100/30                 | -40 ... 150               | 5.0/15.0              | 700                       | N               | N                           | 5,000/3,000             | 40                                   | 3.0/4.0                        | 1.0  |                |               | PG-TO220-5  |
| IFX30081SJV    | 50                     | -40 ... 125               | Adj.                  | 5                         | Y               | N                           | 100                     | 42                                   | 2.0                            | 1.0  |                |               | PG-DSO-8    |
| IFX30081LD V33 | 50                     | -40 ... 125               | 3.3                   | 5                         | Y               | N                           | 100                     | 42                                   | 2.0                            | 1.0  |                |               | PG-TSON-10  |
| IFX20001MB V33 | 30                     | -40 ... 125               | 3.3                   | 110                       | Y               | Y                           | 250                     | 45                                   | 4.0                            | 3.3 (2.5Ω ≤ ESR ≤ 6Ω)                          |                |               | PG-SCT595   |
| IFX20001MB V50 | 30                     | -40 ... 125               | 5.0                   | 110                       | Y               | Y                           | 250                     | 45                                   | 4.0                            | 3.3 (2.5Ω ≤ ESR ≤ 8Ω)                          |                |               | PG-SCT595   |
| IFX20002MB V33 | 30                     | -40 ... 125               | 3.3                   | 130                       | Y               | Y                           | 250                     | 45                                   | 4.0                            | 3.3 (ESR ≤ 2Ω)                                 |                |               | PG-SCT595   |
| IFX20002MB V50 | 30                     | -40 ... 125               | 5.0                   | 130                       | Y               | Y                           | 250                     | 45                                   | 4.0                            | 3.3 (ESR ≤ 3Ω)                                 |                |               | PG-SCT595   |



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## DC/DC converter

| Product                        | Regulator type              | Temperature range [°C] | Output voltage [V]                   | Output current (max.) [mA] | $f_{sw}$ [MHz] | Quiescent current [ $\mu$ A] | Enable (Y/N) | Early warning | Maximum input voltage (Range) [V] | Accuracy output voltage [%] | Over temperature protection | Package        |
|--------------------------------|-----------------------------|------------------------|--------------------------------------|----------------------------|----------------|------------------------------|--------------|---------------|-----------------------------------|-----------------------------|-----------------------------|----------------|
| IFX80471SK V/V50 <sup>1)</sup> | Buck controller             | -40 ... 125            | Adj./5.0                             | 2,300                      | 0.36           | 2                            | Y            | Y             | 5.00–60                           | 3                           | Y                           | PG-DSO-14      |
| IFX81481ELV <sup>1)</sup>      | Synchronous Buck controller | -40 ... 125            | Adj.                                 | 10,000                     | 0.7            | 2                            | Y            | N             | 4.75–45                           | 2                           | Y                           | PG-SSOP-14     |
| IFX90121ELV50                  | Buck regulator              | -40 ... 125            | 5.0                                  | 500                        | 2.2            | 2                            | Y            | N             | 4.75–45                           | 2                           | Y                           | PG-SSOP-14     |
| IFX91041EJ V/V33/V50           | Buck regulator              | -40 ... 125            | Adj./3.3/5.0                         | 1,800                      | 0.37           | 2                            | Y            | N             | 4.75–45                           | 2                           | Y                           | PG-DSO-8-EP    |
| IR3883                         | Synchronous buck regulator  | -40 ... 125            | Adj. 0.5 ... 5.5 V                   | 3,000                      | 0.8            | 1                            | Y            | PGood         | 14                                | 0.5                         | Y                           | PQFN 3 x 3     |
| IR3823                         | Synchronous buck regulator  | -40 ... 125            | Adj. $0.5 V_{in} \times 0.86 V_{in}$ | 3,000                      | 0.25 ... 1.5   | 1                            | Y            | PGood         | 21                                | 0.6                         | Y                           | PQFN 3.5 x 3.5 |
| IR3897                         | Synchronous buck regulator  | -40 ... 125            | Adj. $0.5 V_{in} \times 0.86 V_{in}$ | 4,000                      | 0.25 ... 1.5   | 1                            | Y            | PGood         | 21                                | 0.5                         | Y                           | PQFN 4 x 5     |

1) with external MOSFET

## Voltage tracker

| Product    | Temperature range [°C] | Output voltage [V] | Output current [mA] | Quiescent current [ $\mu$ A] | Enable (Y/N) | Reverse polarity protection | Dropout voltage [mV] | Input voltage (max.) [V] | Accuracy output voltage [%] | Output capacitor for stability (min.) [ $\mu$ F] | Package   |
|------------|------------------------|--------------------|---------------------|------------------------------|--------------|-----------------------------|----------------------|--------------------------|-----------------------------|--|-----------|
| IFX21401MB | -40 ... 125            | Adj.               | 50                  | 140                          | Y            | Y                           | 100                  | 45                       | 0.5                         | 1  | PG-SCT595 |

## Transceiver

| Product     | Temperature range [°C] | Transceiver type   | Transmission rate (max.) | Quiescent current               | Standby current      | Bus wake-up capability | CAN input voltage (max.) [V] | Wake-up inputs | Compatible to | Package   |
|-------------|------------------------|--|--------------------------|---------------------------------|----------------------|------------------------|------------------------------|----------------|---------------|-----------|
| IFX1040SJ   | -40 ... 125            | High-speed CAN with bus wake-up ISO 11898-2 and ISO11898-5 | 1 Mbit/s                 | < 30 $\mu$ A @ 5 V stand-by     | < 10 mA receive only | Yes                    | 40                           | Bus wake-up    | *1040         | PG-DSO-8  |
| IFX1050G    | -40 ... 125            | High-speed CAN ISO 11898-2                                 | 1 Mbit/s                 | < 10 $\mu$ A @ 5 V stand-by     | < 10 mA receive only | No                     | 40                           | No             | *1050/*1051   | PG-DSO-8  |
| IFX1050GVIO | -40 ... 125            | High-speed CAN ISO 11898                                   | 1 Mbit/s                 | < 10 $\mu$ A @ 5/3.3 V stand-by | < 10 mA receive only | No                     | 40                           | No             | *1050/*1051   | PG-DSO-8  |
| IFX1051LE   | -40 ... 125            | High-speed CAN FD ISO 11898                                | 2 Mbit/s                 |                                 | < 2 mA receive only  | No                     | 40                           | No             | *1051         | PG-TSON-8 |
| IFX1051SJ   | -40 ... 125            | High-speed CAN FD ISO 11898                                | 2 Mbit/s                 |                                 | < 2 mA receive only  | No                     | 40                           | No             | *1051         | PG-DSO-8  |

## Constant current relay driver

| Product     | Temperature range [°C] | Hold current (typ.) [mA] | Supply voltage (typ.) [V] | Active time period (max.) [ms] | Recommended relay coil resistance [ $\Omega$ ] | Current consumption (typ.) hold mode [mA] | Package     |
|-------------|------------------------|--------------------------|---------------------------|--------------------------------|--|---|-------------|
| IFX52001EJ  | -40 ... 125            | 50                       | 12                        | 135                            | 65–100   | 0.85                                      | PG-DSO-8-EP |
| TLE4247EL30 | -40 ... 150            | 30                       | 12                        | 135                            | 105–180  | 0.85                                      | PG-DSO-8-EP |



RoHS All products are RoHS compliant.

### 1-channel switches (Industrial PROFET™)

| Product       | $R_{DS(on)}$<br>@ $T_j = 25\text{ °C}$ [mΩ] | Load current (typ.)<br>[A] | $I_{L(SC)}$ (typ.)<br>[A] | $E_{AS}$<br>[mJ] | Recommended operating<br>voltage range [V] | Diagnostic | Packages   |
|---------------|---|----------------------------|---------------------------|------------------|--|------------|------------|
| ITS4060S-SJ-N | 50  | 3.1                        | 17.0                      | 900 @ 1.5A       | 5.0 ... 34.0                               | N/A        | PG-DSO-8   |
| ITS428L2      | 60  | 7.0                        | 22.0                      | 190 @ 7.0A       | 4.75 ... 41.0                              | Digital    | PG-T0252-5 |
| ITS4100S-SJ-N | 70  | 2.4                        | 10.0                      | 870 @ 1.0A       | 5.0 ... 34.0                               | N/A        | PG-DSO-8   |
| ITS4200S-ME-O | 150   | 1.1                        | 1.4                       | 700 @ 0.5A       | 12.0 ... 45.0                              | N/A        | PG-SOT223  |
| ITS4200S-ME-P | 150   | 2.2                        | 3.0                       | 160 @ 1.0A       | 12.0 ... 45.0                              | N/A        | PG-SOT223  |
| ITS4200S-SJ-D | 150   | 1.7                        | 6.5                       | 125 @ 1.0A       | 6.0 ... 52.0                               | Digital    | PG-DSO-8   |
| ITS4200S-ME-N | 160   | 1.2                        | 1.5                       | 500 @ 0.5A       | 5.0 ... 34.0                               | N/A        | PG-SOT223  |
| ITS4141D      | 200   | 1.1                        | 2.1                       | 12,000 @ 0.5A    | 12.0 ... 45.0                              | N/A        | PG-T0252-5 |
| ISP752T       | 200   | 1.7                        | 6.5                       | 125 @ 1.0A       | 5.0 ... 34.0                               | N/A        | PG-DSO-8   |
| ITS4300S-SJ-D | 250   | 0.8                        | 1.2                       | 800 @ 0.3A       | 5.0 ... 34.0                               | Digital    | PG-DSO-8   |
| ISP742RI      | 350   | 0.8                        | 1.2                       | 800 @ 0.3A       | 5.0 ... 34.0                               | Digital    | PG-DSO-8   |
| ITS41k0S-ME-N | 1,000                                       | 0.55                       | 0.9                       | 1,000 @ 0.15A    | 4.9 ... 60.0                               | N/A        | PG-SOT223  |

### 2-channel switches (Industrial PROFET™)

| Product     | $R_{DS(on)}$<br>@ $T_j = 25\text{ °C}$ [mΩ] | Load current (typ.)<br>[A] | Operating voltage<br>(low) | Operating voltage<br>(high) | Digital/sense | Packages   |
|-------------|---|----------------------------|----------------------------|-----------------------------|---------------|------------|
| ITS5215L    | 90  | 2.0                        | 5.5                        | 40                          | Digital       | PG-DSO-12  |
| ITS42k5D-LD | 2,500                                       | 0.25                       | 4.5                        | 42                          | Digital       | PG-TSON-10 |

### 4-channel switches (Industrial PROFET™)

| Product  | $R_{DS(on)}$<br>@ $T_j = 25\text{ °C}$ [mΩ] | Load current (typ.)<br>[A] | Operating voltage<br>(low) | Operating voltage<br>(high) | Digital/sense | Packages  |
|----------|---|----------------------------|----------------------------|-----------------------------|---------------|-----------|
| ITS724G  | 90  | 2                          | 5.5                        | 40                          | Digital       | PG-DSO-20 |
| ITS716G  | 140   | 1                          | 5.5                        | 40                          | Digital       | PG-DSO-20 |
| ITS711L1 | 200   | 1                          | 5.0                        | 34                          | Digital       | PG-DSO-20 |

### 8-channel switches (Industrial PROFET™)

| Product       | $R_{DS(on)}$<br>@ $T_j = 25\text{ °C}$ [mΩ] | Load current (typ.)<br>[A] | Recommended operating<br>voltage range [V] | $I_{L(SC)}$<br>[A] | Diagnostic    | Load current<br>(typ.) [A] | Packages  |
|---------------|---|----------------------------|--|--------------------|---------------|----------------------------|-----------|
| ITS42008-SB-D | 200   | 0.6                        | 11.0 ... 45.0                              | 1.4                | OT, SC to GND | -                          | PG-DSO-36 |



## Product selection by application requirement

| Product type/application type                                   | Lowest current consumption | High input voltage (> 30 V) | Optimized for battery powered systems | Smallest form factor | High current output (> 400 mA) | Highest efficiency | As 2 <sup>nd</sup> load/sensor supply | Cost efficient communication | For optimized heat spreading | Dual output V <sub>REG</sub> | High speed communication | Output voltages below 3.3 V | Compatible to Industry market standard devices |
|---|----------------------------|-----------------------------|---------------------------------------|----------------------|--------------------------------|--------------------|---------------------------------------|------------------------------|------------------------------|------------------------------|--------------------------|-----------------------------|--|
| Hi-speed CAN transceiver/IFX1050G/IFX1050GVIO/IFX1040SJ/IFX1051 |                            |                             |                                       | •                    |                                |                    |                                       | •                            |                              |                              | •                        |                             | •  |
| Voltage regulator/IFX20001/IFX20002                             |                            | •                           |                                       | •                    |                                |                    |                                       |                              |                              |                              |                          |                             |  |
| Dual voltage regulator/IFX21004                                 |                            | •                           |                                       |                      |                                |                    | •                                     |                              |                              | •                            |                          |                             |  |
| Voltage tracker/IFX21401  |                            | •                           |                                       | •                    |                                |                    | •                                     |                              | •                            |                              |                          | •                           |  |
| Voltage regulator/IFX24401                                      | •                          | •                           | •                                     |                      |                                |                    |                                       |                              |                              |                              |                          |                             |  |
| Voltage regulator/IFX25001                                      |                            | •                           |                                       |                      |                                |                    |                                       |                              |                              |                              |                          | •                           |  |
| Voltage regulator/IFX25401                                      |                            | •                           |                                       |                      |                                |                    |                                       |                              |                              |                              |                          | •                           |  |
| Voltage regulator/IFX27001                                      |                            | •                           |                                       |                      | •                              |                    |                                       |                              |                              |                              |                          | •                           |  |
| Voltage regulator/IFX2931                                       |                            |                             |                                       |                      |                                |                    |                                       |                              |                              |                              |                          |                             | •  |
| Voltage regulator/IFX4949                                       |                            |                             |                                       |                      |                                |                    |                                       |                              |                              |                              |                          |                             | •  |
| Voltage regulator/IFX1117/IFX8117                               |                            |                             |                                       |                      | •                              |                    |                                       |                              |                              |                              |                          | •                           | •  |
| Voltage regulator/IFX1763/IFX54441/IFX54211                     | •                          |                             | •                                     |                      | •                              |                    |                                       |                              |                              |                              |                          | •                           | •  |
| Voltage regulator/IFX1963                                       |                            | •                           |                                       |                      | •                              |                    |                                       |                              |                              |                              |                          | •                           | •  |
| Voltage regulator/IFX7805/78M05                                 |                            |                             |                                       |                      | •                              |                    |                                       |                              |                              |                              |                          |                             | •  |
| Voltage regulator/IFX30081                                      | •                          | •                           | •                                     | •                    |                                |                    | •                                     |                              |                              |                              |                          | •                           |  |
| DC/DC converter/IFX80471/IFX91041                               | •                          | •                           | •                                     |                      | •                              | •                  |                                       |                              |                              |                              |                          | •                           |  |
| DC/DC converter/IFX81481  | •                          | •                           | •                                     |                      | •                              | •                  |                                       |                              |                              |                              |                          | •                           |  |
| DC/DC regulator/IFX90121  | •                          | •                           | •                                     |                      | •                              | •                  |                                       |                              |                              |                              |                          | •                           |  |
| DC/DC regulator IR38xy Family                                   | •                          | •                           | •                                     | •                    | •                              | •                  |                                       |                              |                              |                              |                          | •                           |  |
| Constant current relay driver/IFX52001/TLE4247EL30              | •                          |                             | •                                     |                      |                                | •                  |                                       |                              |                              |                              |                          |                             |  |

## Application areas by product

| Product type/application type                                   | Smart metering | Industrial automation | Medical & healthcare | Telecom | Security/access ctrl. | Building automation | White goods | Heating/cooling systems (HVAC) |
|---|----------------|-----------------------|----------------------|---------|-----------------------|---------------------|-------------|--------------------------------|
| Hi-speed CAN transceiver/IFX1050G/IFX1050GVIO/IFX1040SJ/IFX1051 |                | •                     | •                    | •       | •                     | •                   |             |                                |
| Fault-tolerant CAN transceiver                                  |                | •                     | •                    |         | •                     | •                   |             |                                |
| Voltage regulator/IFX20001/IFX20002                             |                | •                     | •                    |         |                       | •                   | •           | •                              |
| Dual voltage regulator/IFX21004                                 |                | •                     |                      |         |                       | •                   |             |                                |
| Voltage tracker/IFX21401  | •              | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX24401                                      | •              | •                     | •                    | •       | •                     | •                   | •           | •                              |
| Voltage regulator/IFX25001                                      |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX25401                                      |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX27001                                      |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX2931                                       |                | •                     | •                    | •       | •                     | •                   | •           | •                              |
| Voltage regulator/IFX4949                                       |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX1117/IFX8117                               |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX1763/IFX54441/IFX54211                     | •              | •                     | •                    | •       | •                     | •                   | •           | •                              |
| Voltage regulator/IFX1963                                       |                | •                     | •                    | •       | •                     | •                   | •           | •                              |
| Voltage regulator/IFX7805/78M05                                 |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| Voltage regulator/IFX30081                                      | •              | •                     | •                    | •       | •                     | •                   | •           | •                              |
| DC/DC converter/IFX80471/IFX91041                               | •              | •                     | •                    |         |                       | •                   | •           | •                              |
| DC/DC converter /IFX81481                                       |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| DC/DC regulator /IFX90121                                       |                | •                     | •                    | •       |                       | •                   | •           | •                              |
| DC/DC regulator IR38xy Family                                   |                | •                     | •                    | •       | •                     | •                   | •           | •                              |
| Constant current relay driver/IFX52001/TLE4247EL30              | •              | •                     | •                    | •       | •                     | •                   | •           | •                              |

## Voltage regulators for Infineon microcontrollers

| Microcontroller family | Input voltage [V]  | Input current (max.) [mA] | Voltage regulator  |
|------------------------|--------------------|---------------------------|--|
| XMC1x00                | 1.8-5.5            | < 100                     | IFX2931/IFX4949/IFX25001/IFX54441/IFX54211                   |
| XMC4x00                | 3.3                | < 500/300                 | IFX1763/IFX54441/IFX90121/IFX1117                            |
| XC8xx                  | 3.3-5.0            | 200                       | IFX20001/IFX24401/IFX2931/IFX21401/IFX4949/IFX54441/IFX54211 |
| XE166/XC2000           | 1.5 and 3.3 or 5.0 | 100                       | IFX25401/IFX24401/IFX2931/IFX4949                            |
| TriCore™               | 1.5-3.3            | > 400                     | IFX27001/IFX8117/IFX91041/IFX80471/IFX25001/IFX1117          |

## Available evaluation boards

| Demoboard          | Type                     | For device                               |
|--------------------|--------------------------|--|
| IFX91041           | DC/DC regulator          | IFX91041EJ V                             |
| IFX80471           | DC/DC controller         | IFX80471SK V                             |
| IFX1050G           | CAN transceiver          | IFX1050G/IFX1050G VIO/IFX1040SJ          |
| Industrial PROFET™ | High-side switch         | ITS4100/ITS4200/ITS4060/ITS4300/ITS41k0S |
| IFX81481           | DC/DC controller         | IFX81481EL V                             |
| IFX90121           | DC/DC regulator          | IFX90121EL V50                           |
| ITS42k5D           | High-side switch         | ITS42k5D-LD                              |
| IFX1763            | Linear voltage regulator | IFX1763/IFX54441 Family                  |
| IFX30081           | Linear voltage regulator | IFX30081SJV                              |
| ITS7xy             | High-side switch         | ITS711L1, ITS716G, ITS7246               |
| ITS42008           | High-side switch         | ITS42008-SB-D                            |



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