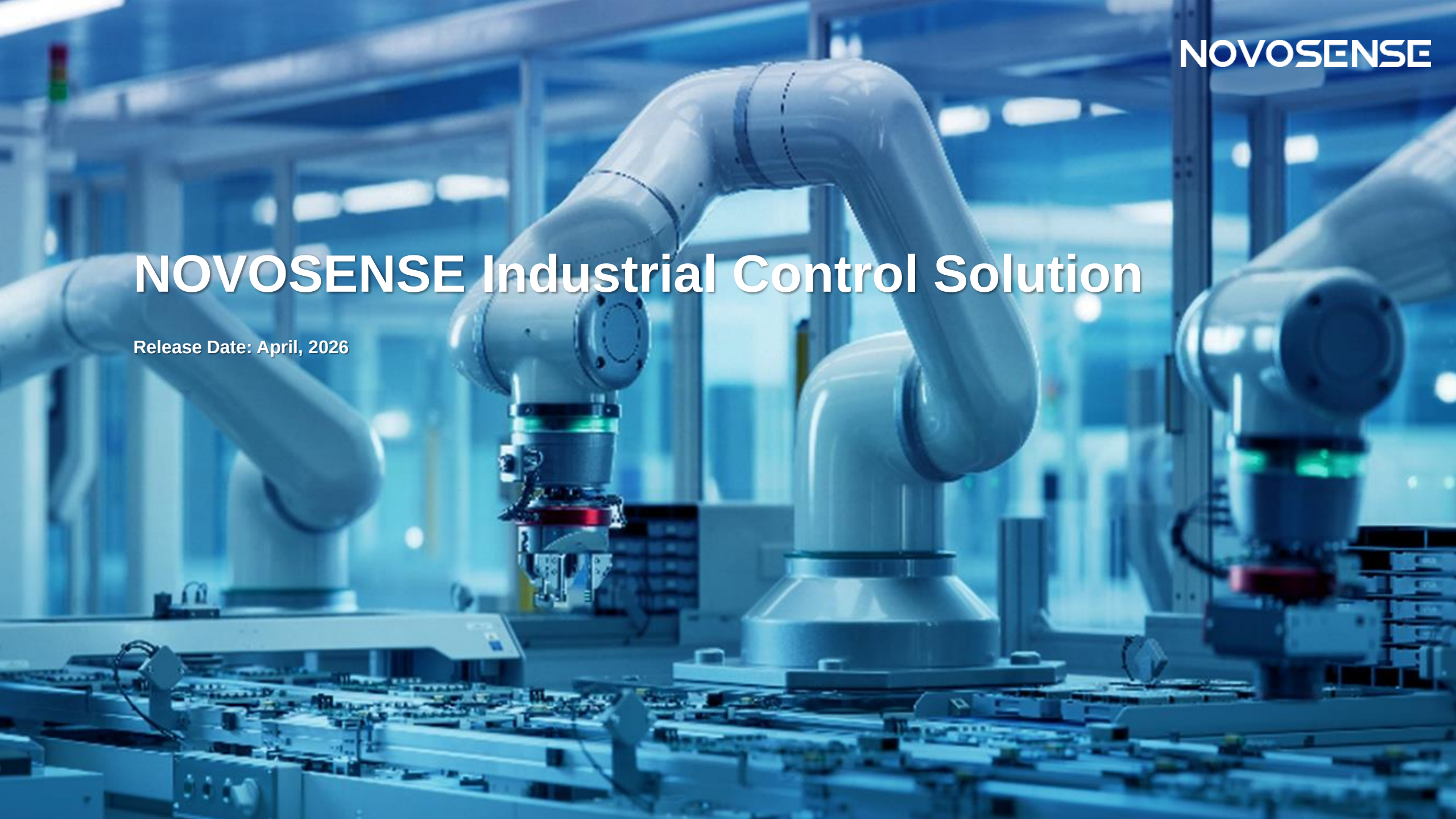

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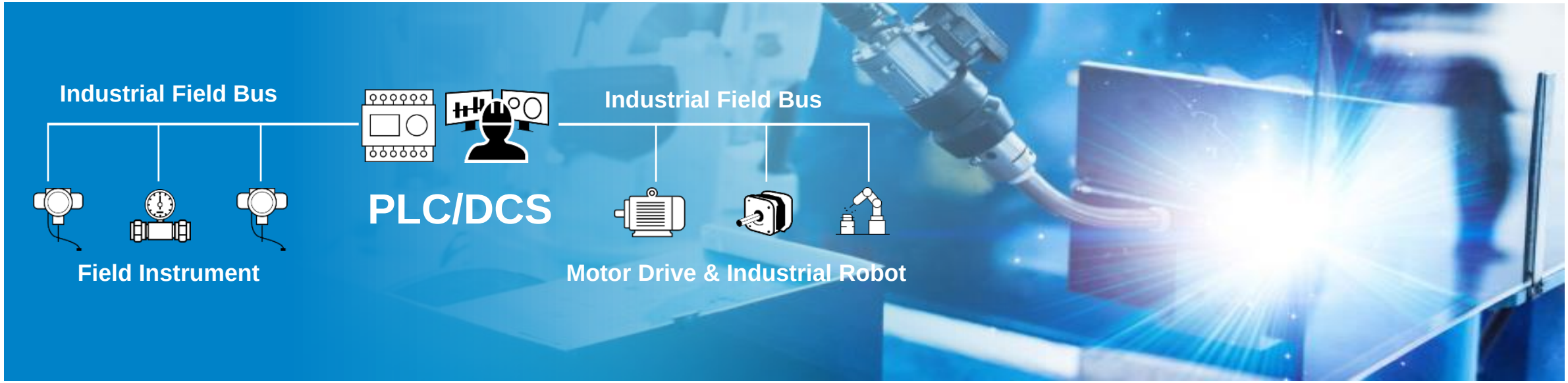
NOVOSENSE Industrial Control Solution

Release Date: April, 2026

Industrial Control Solution Overview



Field Instrument

- 4~20mA industrial transmitter ASIC
- Industrial field bus interface IC
- Digital isolator/Isolated power
- Temperature sensor /MEMS pressure sensor/ Magnetic position sensor
- Buck/LDO/Voltage supervisor
- General operational amplifier
- High-precision voltage reference
- MCU

PLC/DCS Controller

- Analog input/output AFE
- ISO digital input and output
- Back plane board interface: mLVDS, eFuse, Hot swap
- Industrial field bus interface IC
- Digital isolation & power isolation
- Temperature sensor
- Buck/LDO/Voltage supervisor
- General operational amplifier
- MCU

Motor Driver & Industrial Robot

- Isolated and non-isolated gate driver
- IGBT & MOSFET
- ISO voltage & current sensing (ISO operational amplifier & ISO ADC)
- High-speed digital isolator
- Industrial field bus and encoder bus interface IC
- General operational amplifier
- High-precision voltage reference
- Analog input/output AFE
- ISO digital input and output
- Temperature sensor
- Magnetic encoder sensor & TMR switch
- Buck/LDO/Voltage supervisor
- MCU

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Robot

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Sensing/Communication

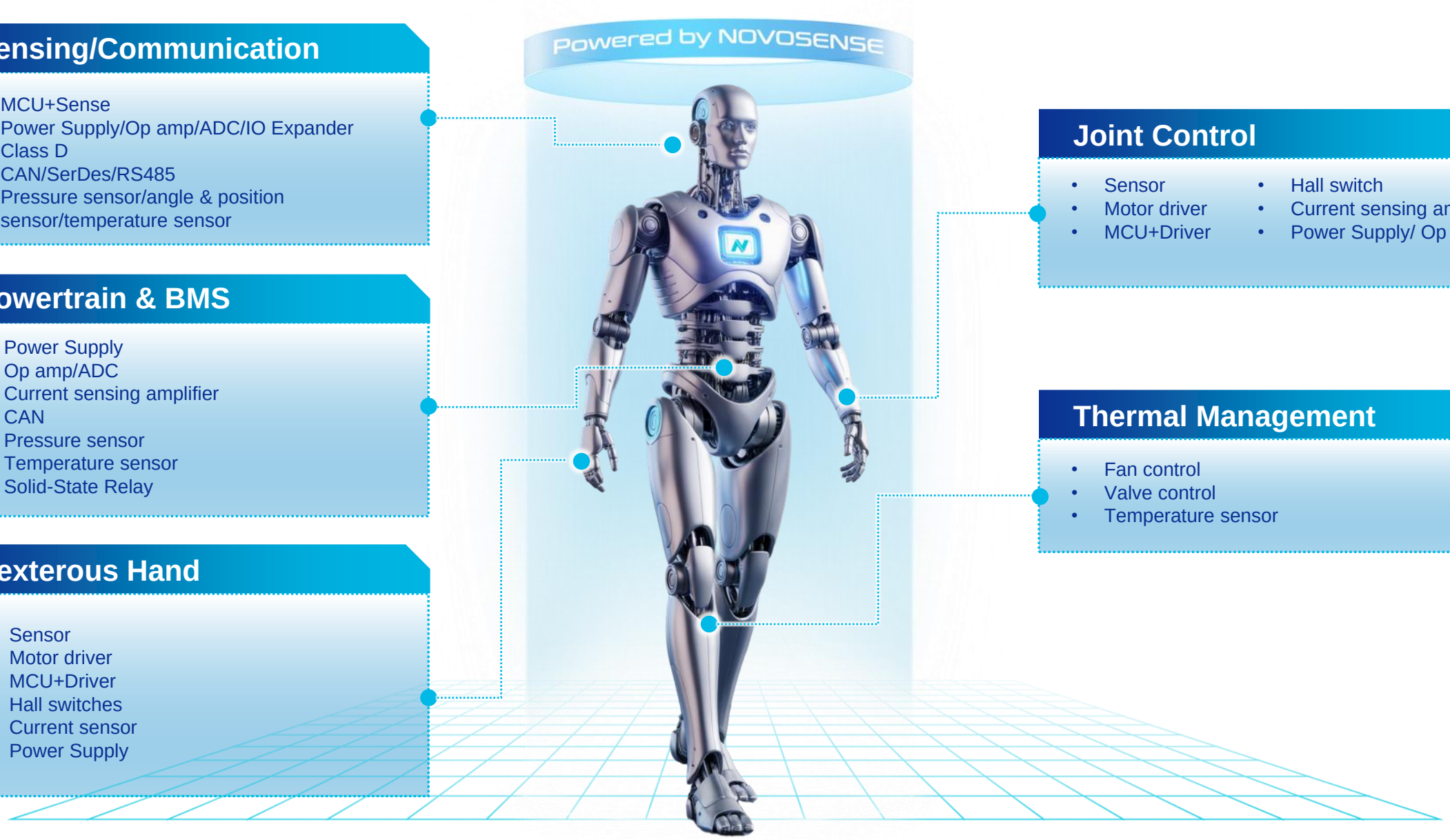
- MCU+Sense
- Power Supply/Op amp/ADC/IO Expander
- Class D
- CAN/SerDes/RS485
- Pressure sensor/angle & position sensor/temperature sensor

Powertrain & BMS

- Power Supply
- Op amp/ADC
- Current sensing amplifier
- CAN
- Pressure sensor
- Temperature sensor
- Solid-State Relay

Dexterous Hand

- Sensor
- Motor driver
- MCU+Driver
- Hall switches
- Current sensor
- Power Supply



Joint Control

- Sensor
- Motor driver
- MCU+Driver
- Hall switch
- Current sensing amplifier
- Power Supply/ Op

Thermal Management

- Fan control
- Valve control
- Temperature sensor

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Robot

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MCU & MCU+Driver

MCU (NS800RT5049, NS800RT7P65)
MCU+Driver (NSUC1610, NSUC1602, NSUC1612)

Current & voltage & temperature & position sensing

Hall current sensor (NSM201x, NSM211x, NSM2311, NSM204x)
Isolated amplifier (NSI1300, NSI1400, NSI1311, NSI1611)
Isolated ADC (NSI1306)
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084)
Temperature sensor (NST1001, NST1002)
Angle sensor (MT6835, MT6709, MT6620, MT6901)
Position sensor (NSM1013, NSM3012, NSM3011, MT9501, MT9511, MT83xx, MT89xx, MT72xx, MT910x)
Humidity sensor (NSHT3x)
Pressure sensor (NSA/C9260x, NSA/C2860x)
Current sense (NSCSA240, NSCSA21x)

Gate driver & motor driver

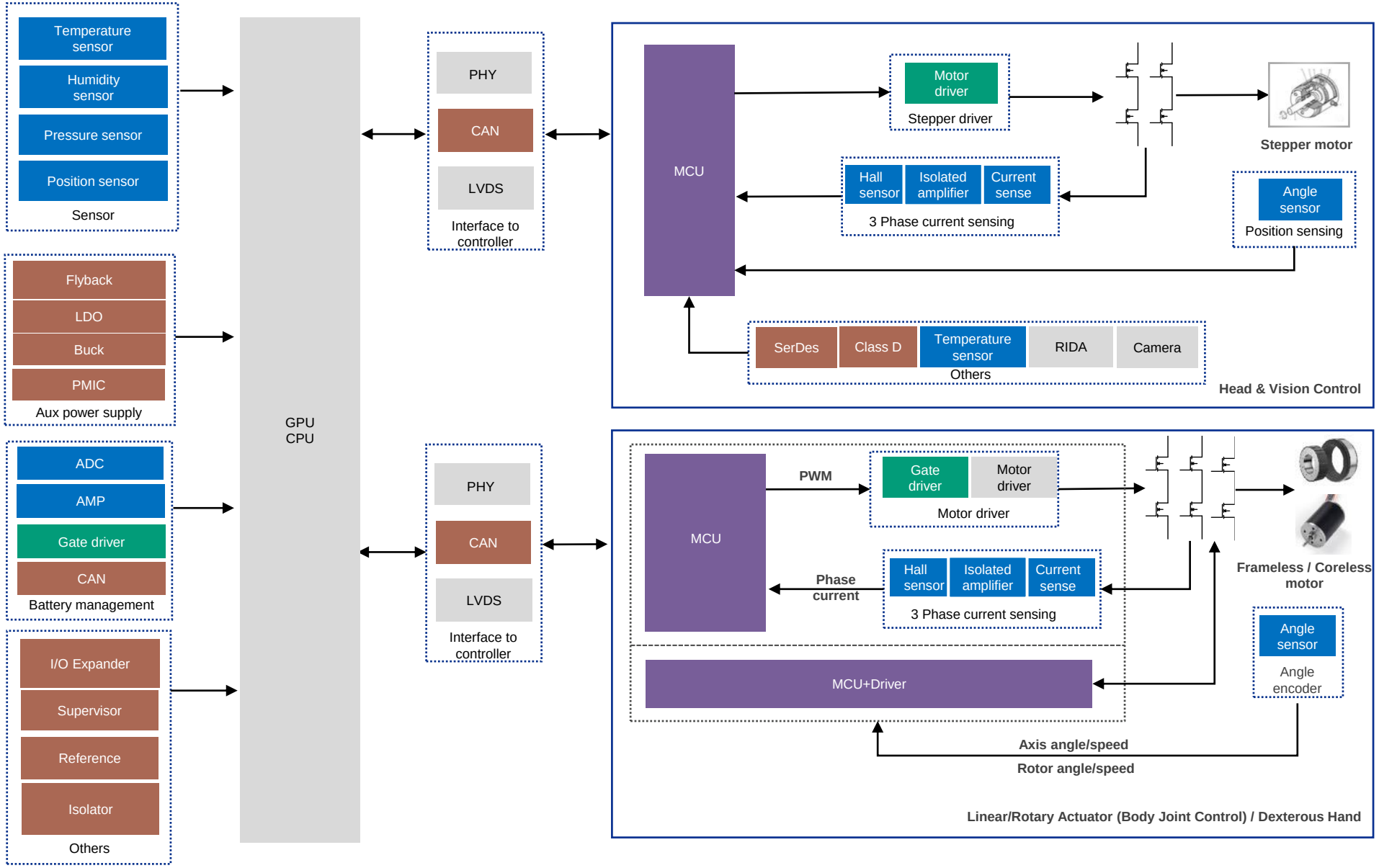
Gate driver (NSD262x)
Motor driver (NSD8381, NSD8389)

Power management

LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Communication & amplifier & monitoring & reference

RS485 (NSI8308x, NCA3176, NSIP83086)
CAN (NCA1051A, NCA1042B, NSIP1042, NSI1050, NSI1042)
Isolator (NSI82xx)
Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808)



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Energy Control Unit / Concentrator / DTU

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Current & voltage & temperature sensing

Current sensing (NSM201x, NSM211x, NSOPA9xxx, NSOPA8xxx, NSI1300, NSI1400)

Voltage sensing (NSI1311, NSI1312, NSI1611, NSOPA9xxx, NSOPA8xxx, NSI361x)

Temperature sensor (NST1001, NST1002, NST86)

Humidity sensor (NSHT3x)

Power management

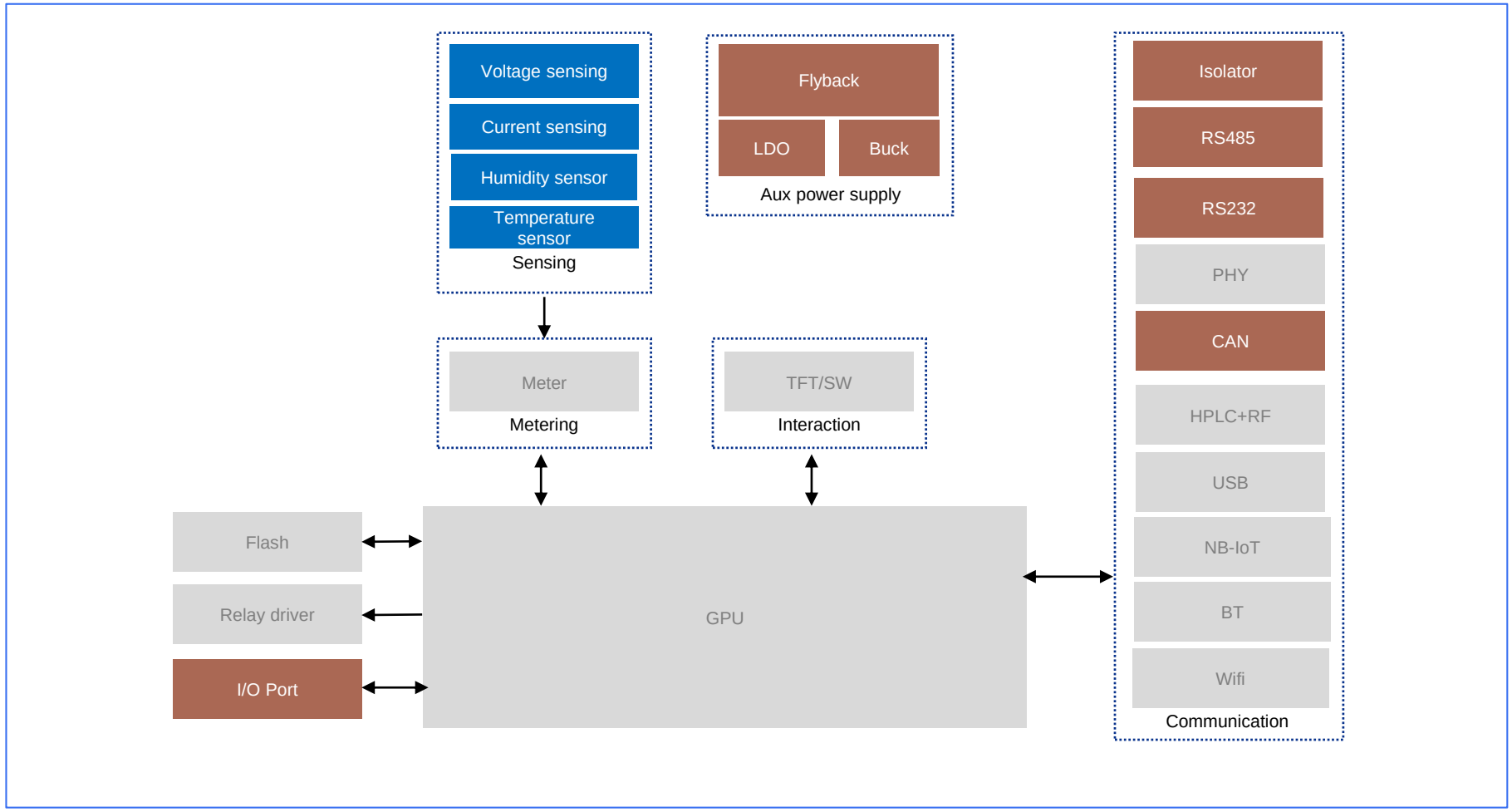
Flyback (NSR284x/NSR28C4x, NSR2240x, NSR2260x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Interface & digital isolation

Digital isolator (NSI82xx, NIRS21, NIRS31)
CAN transceiver (NCA1051A, NCA1042B, NCA1044, NSI1050, NSI1042)
RS485 (NSI83085, NSI83086, NCA3176, NCA3485)
I/O expander (NCA9555)



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Smart Wattmeter / FTU

NOVOSENSE

Current & voltage & position sensing

Current sensing (NSM201x, NSM211x, NSI1300, NSI1400)

Temperature sensor (NST1001, NST1002, NST7719)

Voltage sensing (NSI1311,NSI1312, NSI1611, NSOPA9xxx, NSOPA8xxx, NSI361x)

Hall switch (MT8652-3D, MT6131)

Amplifier (NSOPA9xxx, NSOPA8xxx)

Interface & digital isolation

Digital isolator (NSI82xx, NIRS21, NIRS31)

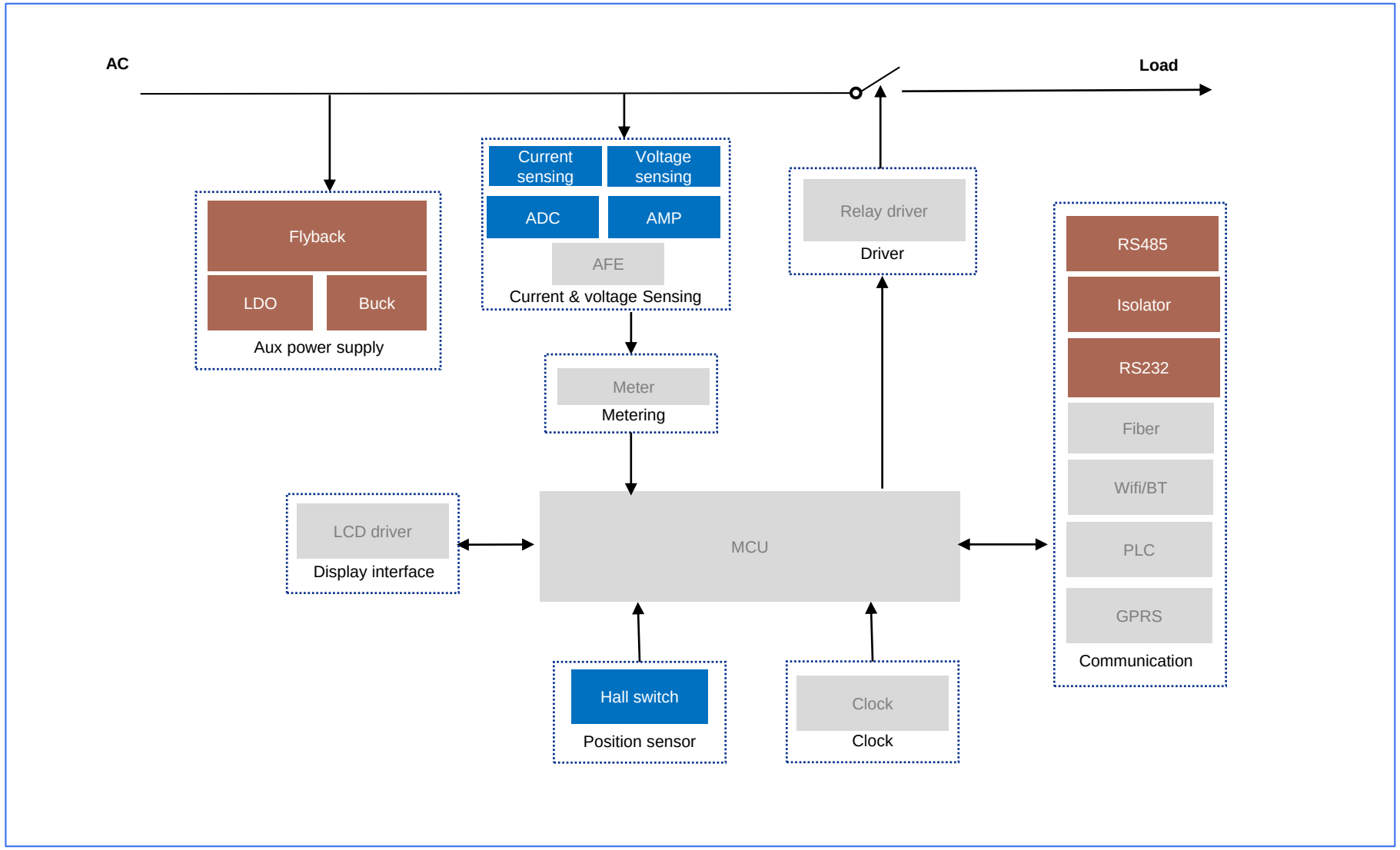
RS485 (NSI83085, NSI83086, NCA3176, NCA3485)

Power management

Flyback (NSR284x/NSR28C4x, NSR2240x, NSR2260x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)



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Current & voltage & temperature sensing

Current sensing (NSM201x, NSM211x, NSOPA9xxx)

Voltage sensing (NSI1312, NSI36(C)1x(R), NSOPA9xxx, NSOPA8xxx)

Temperature sensor (NST235, NST20, NST1001, NST1002)

Reference (NSREF30xx, NSREF31xx)

Interface & digital isolation

Digital isolator (NSI82xx, NIRS21, NIRS31)

CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)

RS485 (NSI83085, NSI83086, NCA3176, NCA3485)

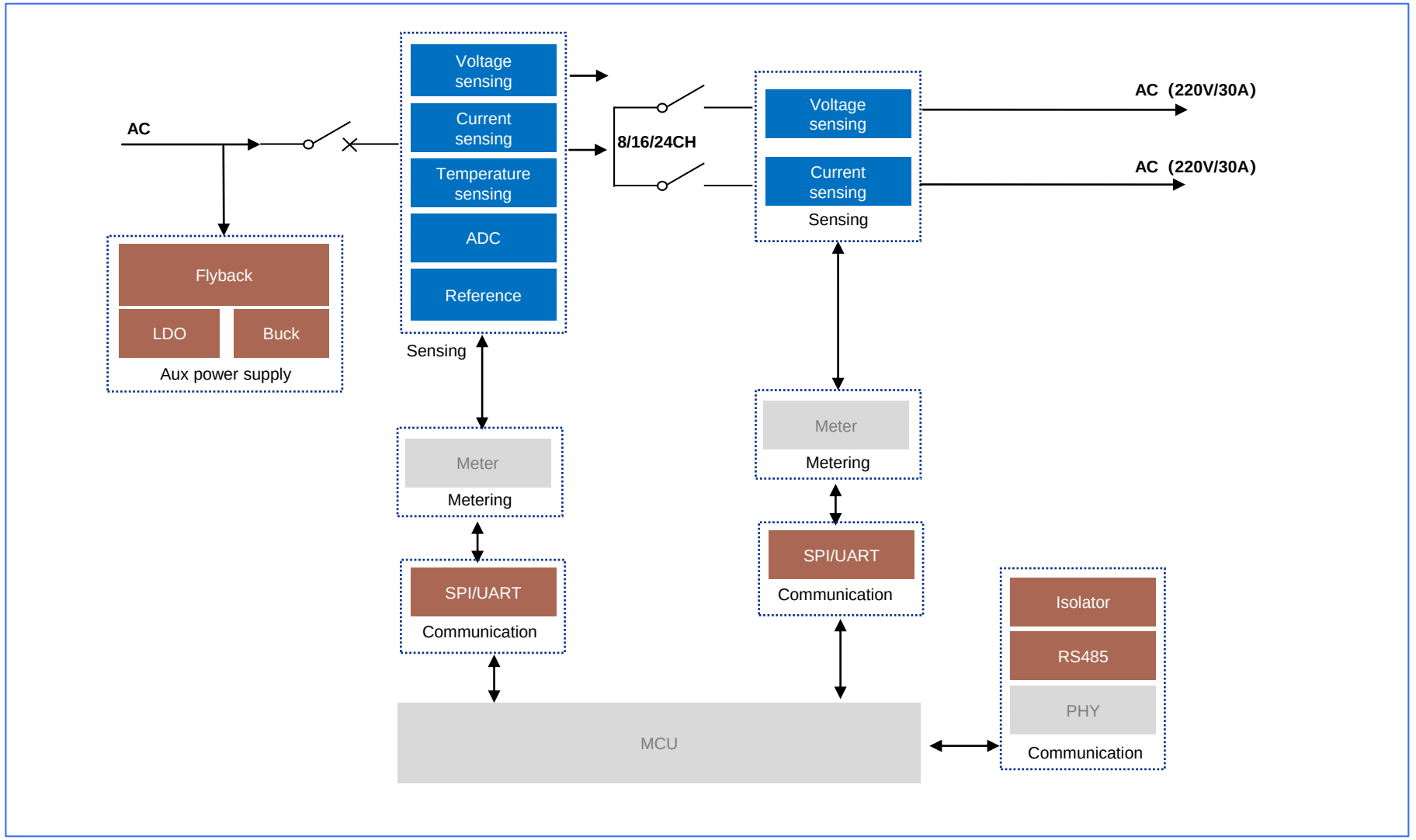
SPI/UART (NSI82xx, NSI8100, NSI8200)

Power management

Flyback (NSR284x/NSR28C4x, NSR2240x, NSR2260x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)



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Water / Gas Meters

NOVOSENSE

Hall Switch & Angle Sensor

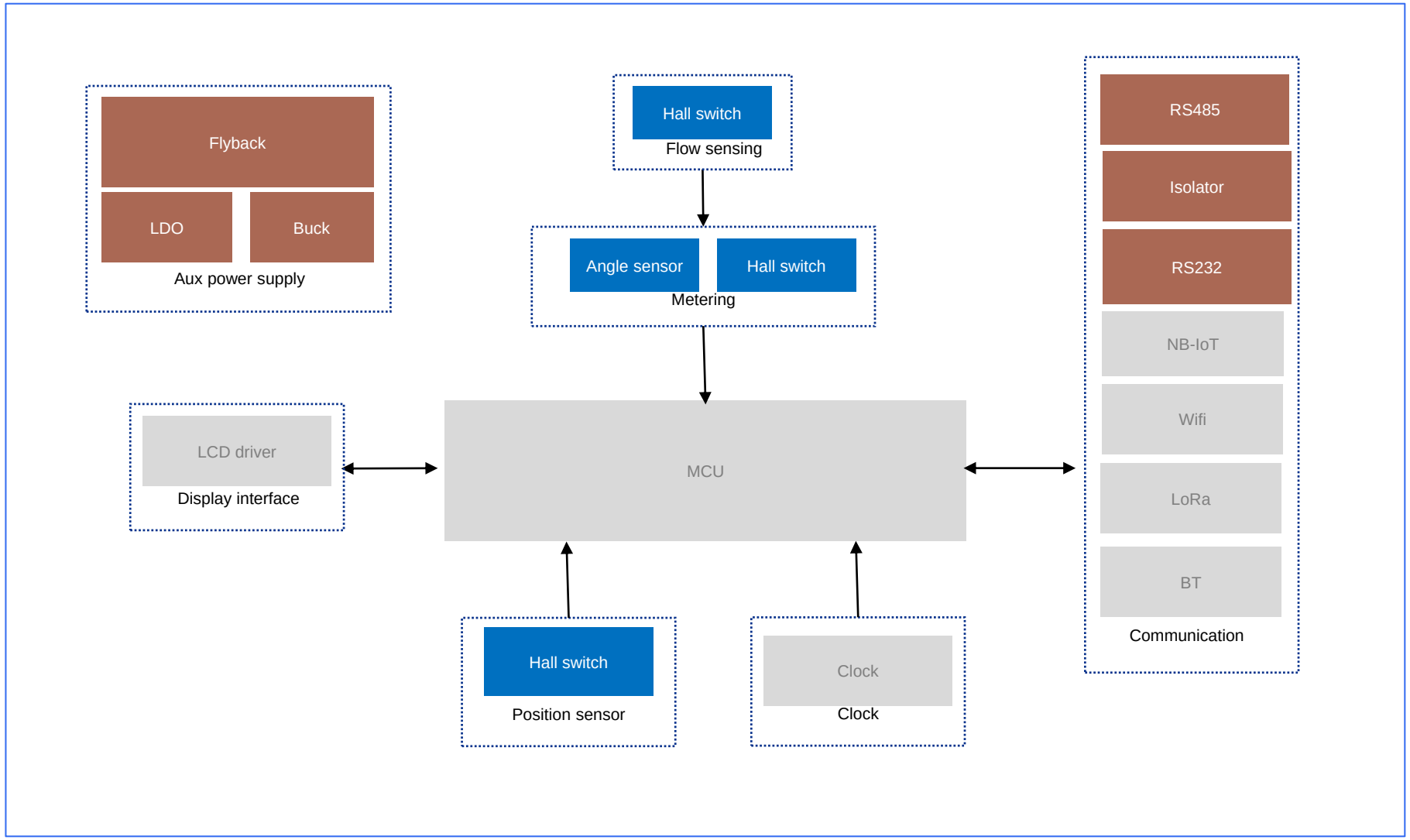
Hall switch (MT863x, MT6343, MT8652-3D, MT8831)
Amplifier (NSOPA9xxx, NSOPA8xxx)
Angle sensor (MTL100)
Temperature sensor (NST1001, NST1002)
Pressure sensor (NSPADx)

Interface & digital isolation

Digital isolator (NSI82xx, NIRS21, NIRS31)
RS485 (NSI83085, NSI83086, NCA3176, NCA3485)

Power management

Flyback (NSR284x/NSR28C4x, NSR2240x, NSR2260x)
LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)



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MCU

MCU (NS800RT7377D)

Temperature & pressure sensing

Temperature sensor (NST1001, NST1002)

Pressure sensor (NSC2860x, NSA2860x, NSA2862x)

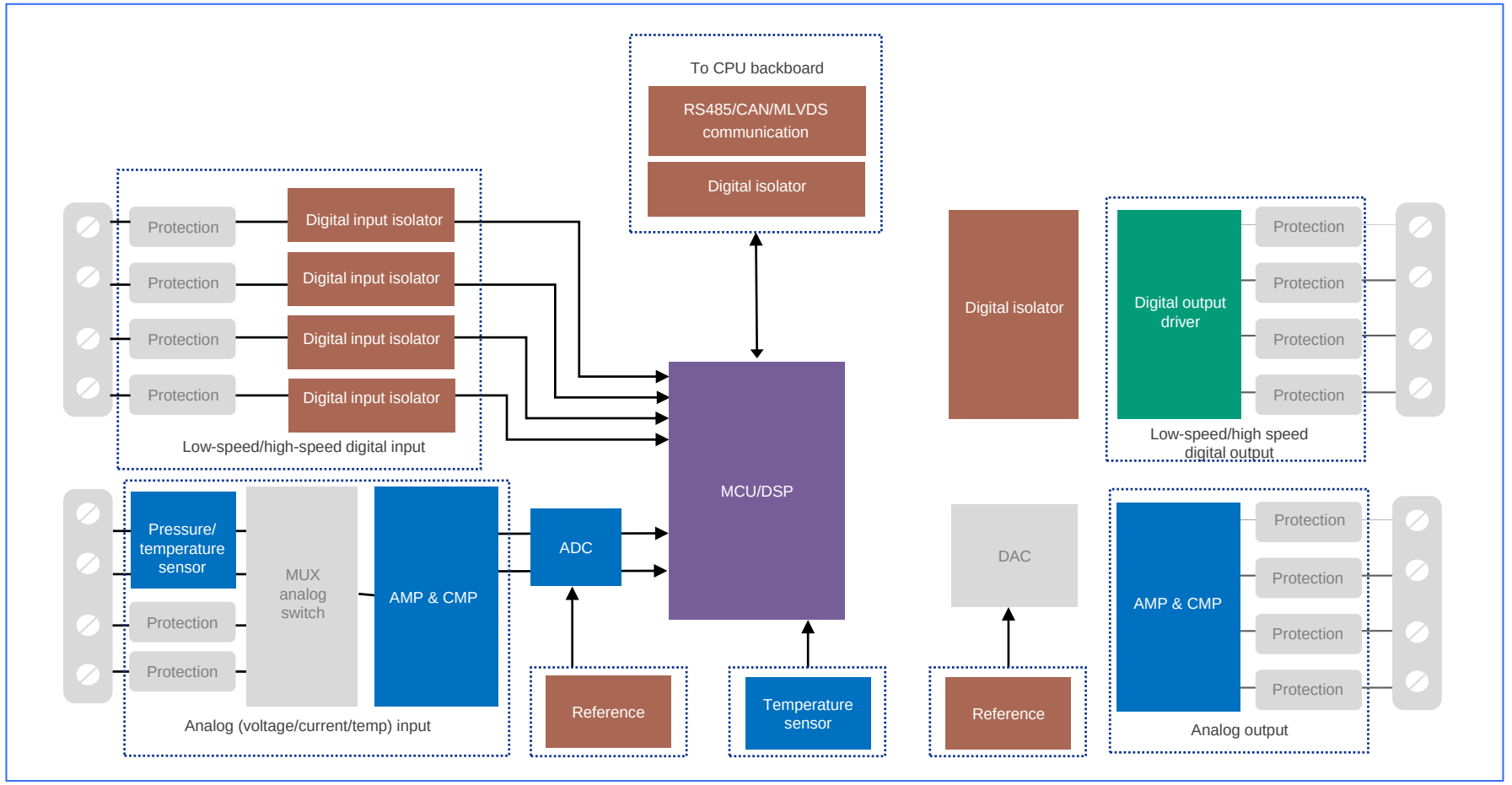
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA610x, LM29xx, LM3xx)

Comparator (LM29xx, LM3xx, NSCMP302x)

ADC (NSAD124x, NSAD114x)

Motor driver

Digital output driver (NSD5604, NSD830x/1x)



Reference

Reference (NSREF30xx, NSREF31xx)

Interface & digital isolation

Digital isolator (NSI82xx)

Digital input isolator (NSI8608, NSI7211)

CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042, NSI1150, NSIP1042C, NSIP904x)

RS485 (NSI83085, NSI83086, NCA3176, NCA3485, NCA3492, NSIP93086)

MLVDS (NLC5304)

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Stepper Motor

NOVOSENSE

MCU

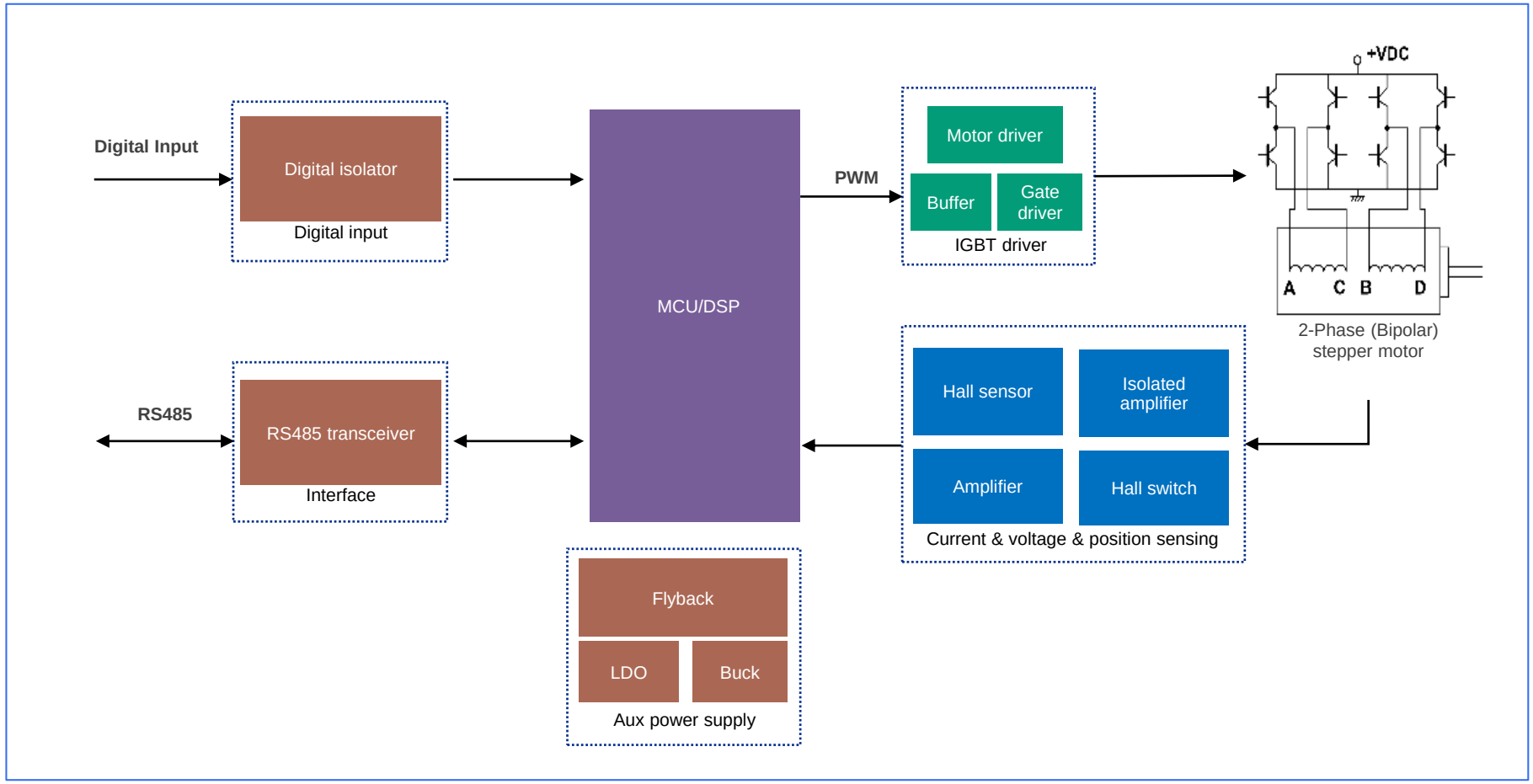
MCU (NS800RT1137)

Current & voltage & temperature & pressure sensing

Hall sensor (NSM201x, NSM211x, NSM204x)
Hall switch (NSM1013, NSM3012, NSM3011, MT9501, MT9511, MT83xx, MT89xx, MT72xx)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611)
Amplifier (NSOPA9xxx, NSOPA8xxx)
Temperature sensor (NST1001, NST1002)
Pressure sensor (NSC2860x, NSA2860x, NSA2862x)
Angle position sensor (MT6826S, MT6835)

Gate driver & Buffer & Motor driver

Gate driver (NSI6801, NSI6801x, NSI68515, NSI6801M, NSD1624)
Buffer (NCA8244, NCA8245)
Motor driver (NSD8381)



Power management

Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Interface & digital isolation

Digital isolator (NSI82xx)
Digital input isolator (NSI8608)
RS485 (NSI83085, NSI83086, NCA3176, NCA3485, NCA3492, NSIP93086)

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Industrial Frequency Converters

NOVOSENSE

MCU

MCU (NS800RT3025, NS800RT1137)

Current & voltage & temperature sensing

Hall sensor (NSM201x, NSM211x, NSM203x, MT9519, NSM2311)

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611)

Isolated comparator (NSI22C12, NSI22C11)

Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, LM29xx, LM3xx)

Comparator (LM29xx, LM3xx, NSCMP302x)

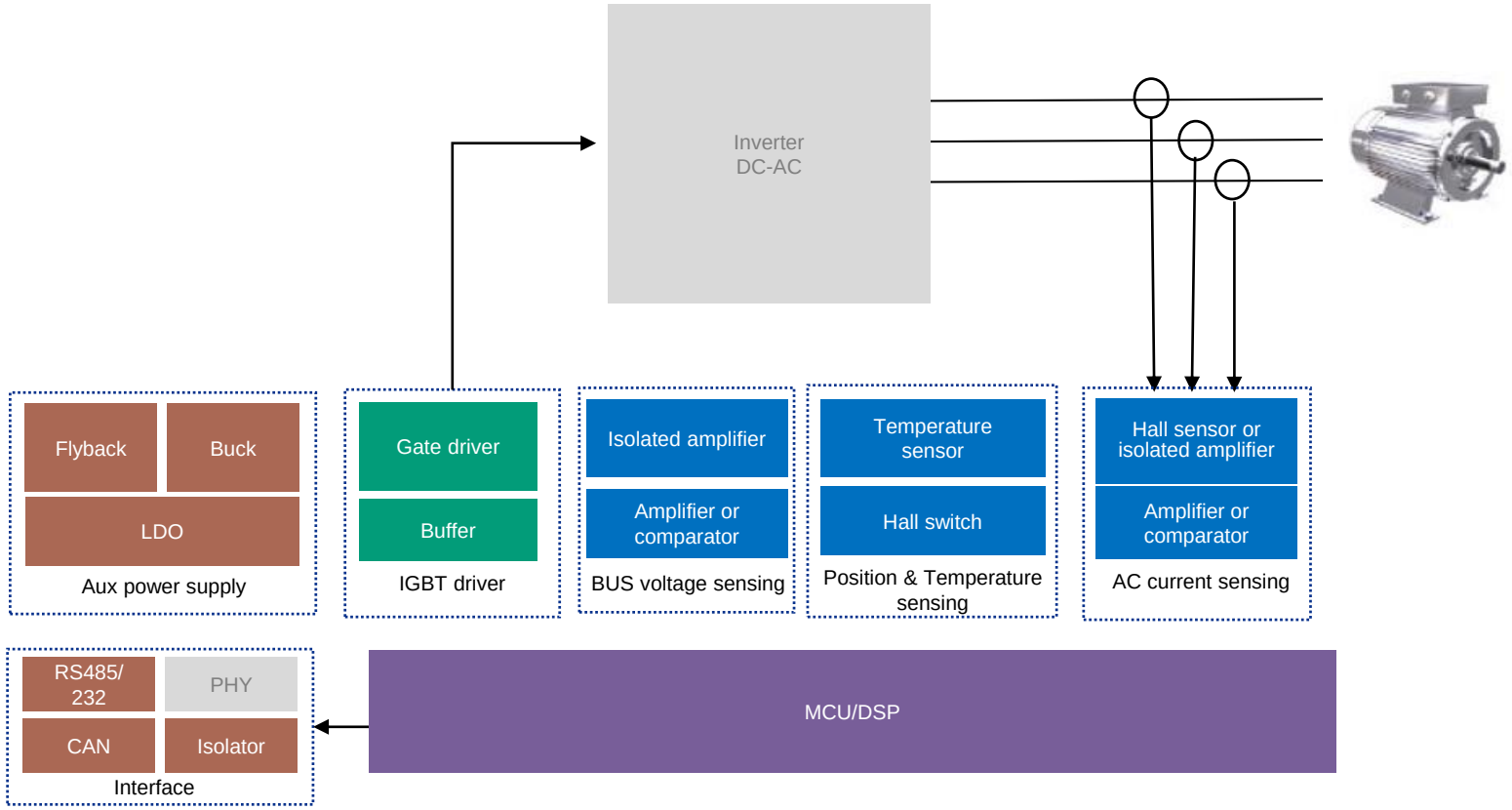
Temperature sensor (NST1001, NST1002)

Hall switch (NSM1013, NSM3012, NSM3011, MT9501, MT9511, MT83xx, MT89xx, MT72xx)

Gate driver & Buffer

Gate driver (NSI6801, NSI6801E, NSI68515, NSI6801M, NSD1624)

Buffer (NCA8244)



Protection & reference

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808)

Power management

Flyback (NSR284x/NSR28C4x, NSR2240x, NSR2260x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)

Interface & digital isolation

Digital isolator (NSI82xx, NIRS21, NIRS31)

CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)

RS485 (NSI83085, NSI83086, NCA3176, NCA3485, NCA3492, NSIP93086)

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MCU

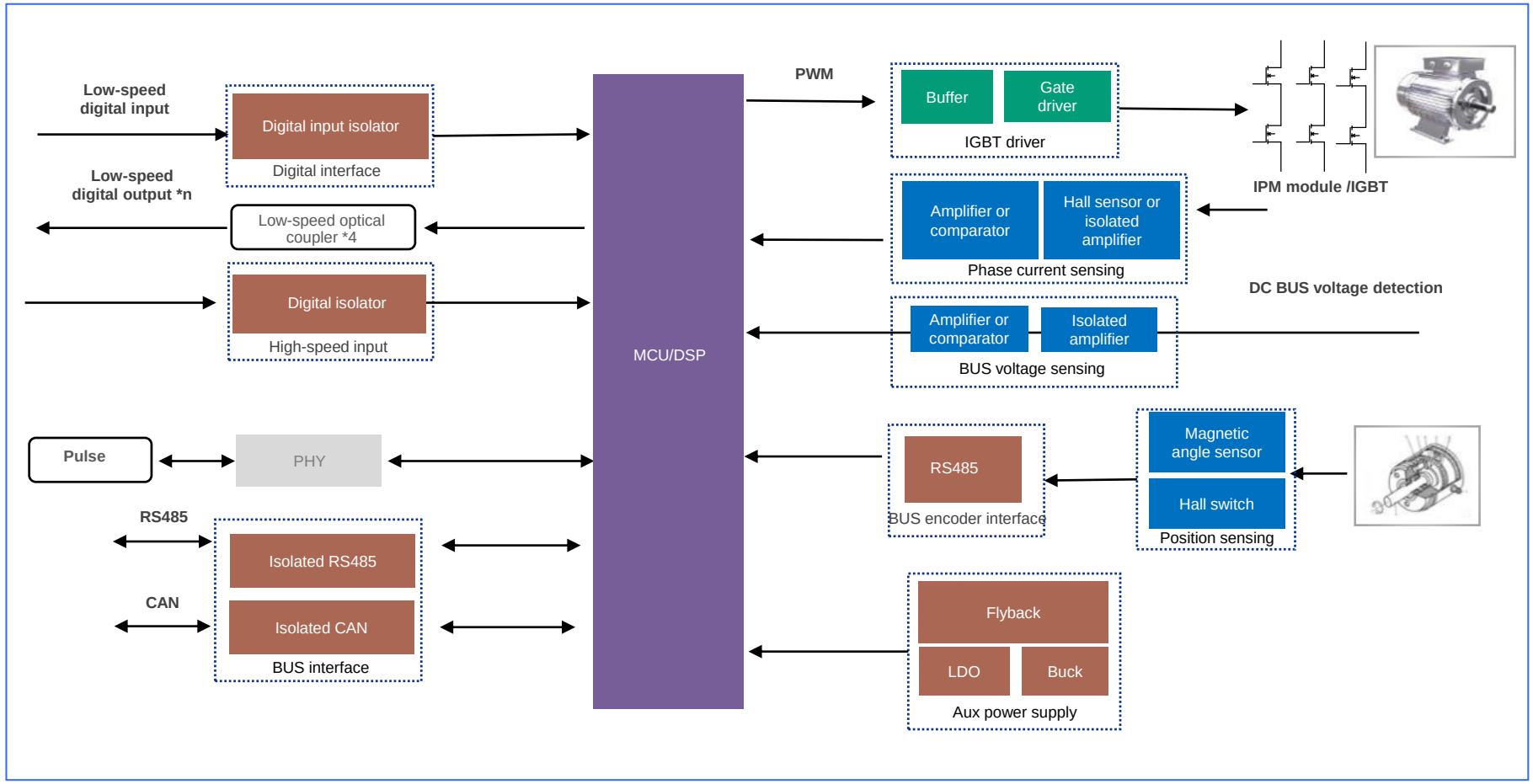
MCU (NS800RT5049, NS800RT7P65)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x, NSM203x, MT9519, NSM2311)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611)
Isolated ADC (NSI1306, NSI1305, NSI1303)
Isolated comparator (NSI22C12, NSI22C11)
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, LM29xx, LM3xx)
Comparator (LM29xx, LM3xx, NSCMP302x)
Temperature sensor (NST1001, NST1002)
Magnetic angle sensor (MT6835, MT6826S, MT6901)
Hall switch (NSM1013, NSM3012, NSM3011, MT9501, MT9511, MT83xx, MT89xx, MT72xx)

Gate driver & Buffer

Gate driver (NSI6801, NSI6801x, NSI68515, NSI6801M, NSD1624, NSD1015T)
Buffer (NCA8244)



Interface & digital isolation

Digital input isolator (NSI8608)
Digital isolator (NSI82xx, NSI8260, NSI8266)
CAN transceiver (NSI1050, NSI1042)
Isolated RS485 (NSI83085, NSI83086, NSI93086)
RS485 (NCA3176, NCA3485)

Power management

Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Buck (NSR104xx, NSR106xx, NSR114xx, NSR1103x)

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Technical Support

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Product Selection

Application Solution

Application Note

Technical Video

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