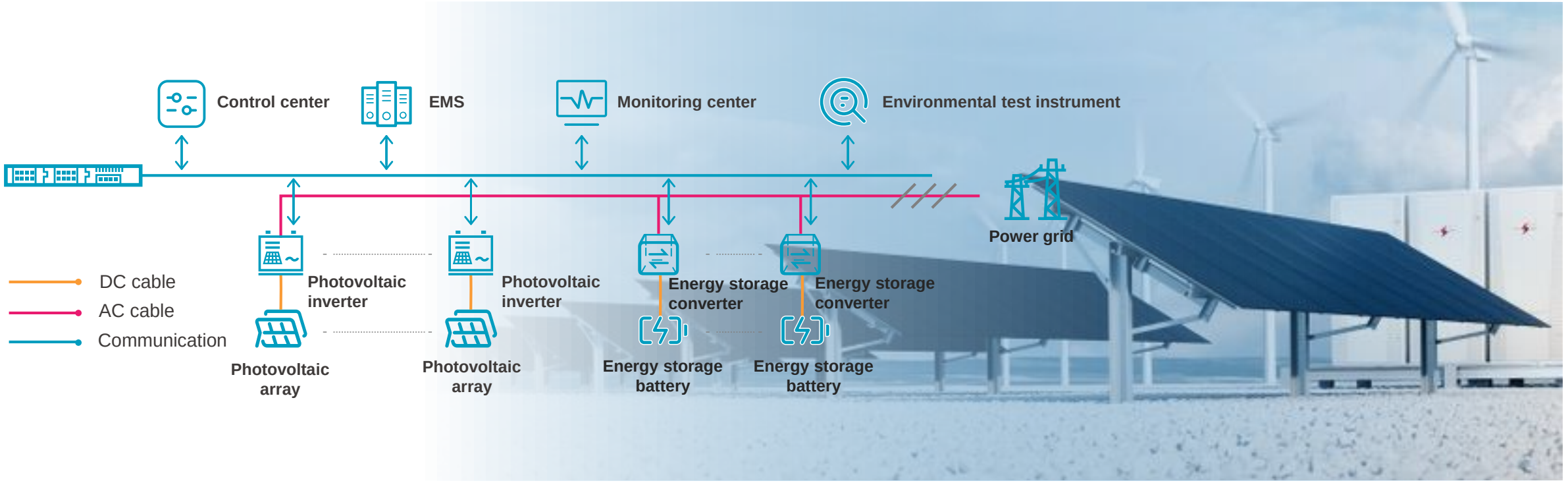
NOVOSENSE

NOVOSENSE
Renewable Energy & Power Supply Solution

Release Date: April, 2026

PV & Energy Storage System Solution



Solar Inverter/Energy Storage Converter

- ISO/Non-ISO driver IC
- ISO current/Voltage sensing IC, Hall current sensor
- Digital isolator, ISO interface (w/o ISO power) IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- MCU

PV Array/Optimizer

- ISO current/Voltage sensing IC，Hall current sensor
- Digital isolator/ISO interface/ISO power/Interface IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- Smart diode
- Temperature sensor
- MCU

Energy Storage Battery /BMS

- ISO current/Voltage sensing IC, Hall current sensor
- Digital isolator/ISO interface/ISO power/Interface IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- Temperature/Humidity sensor and pressure sensor

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String Inverter

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MCU

MCU (NS800RT5039, NS800RT5049, NS800RT7374, NS800RT7379D)

Current & voltage & temperature sensing

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

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, NSOPA610x, LM29xx, LM3xx)

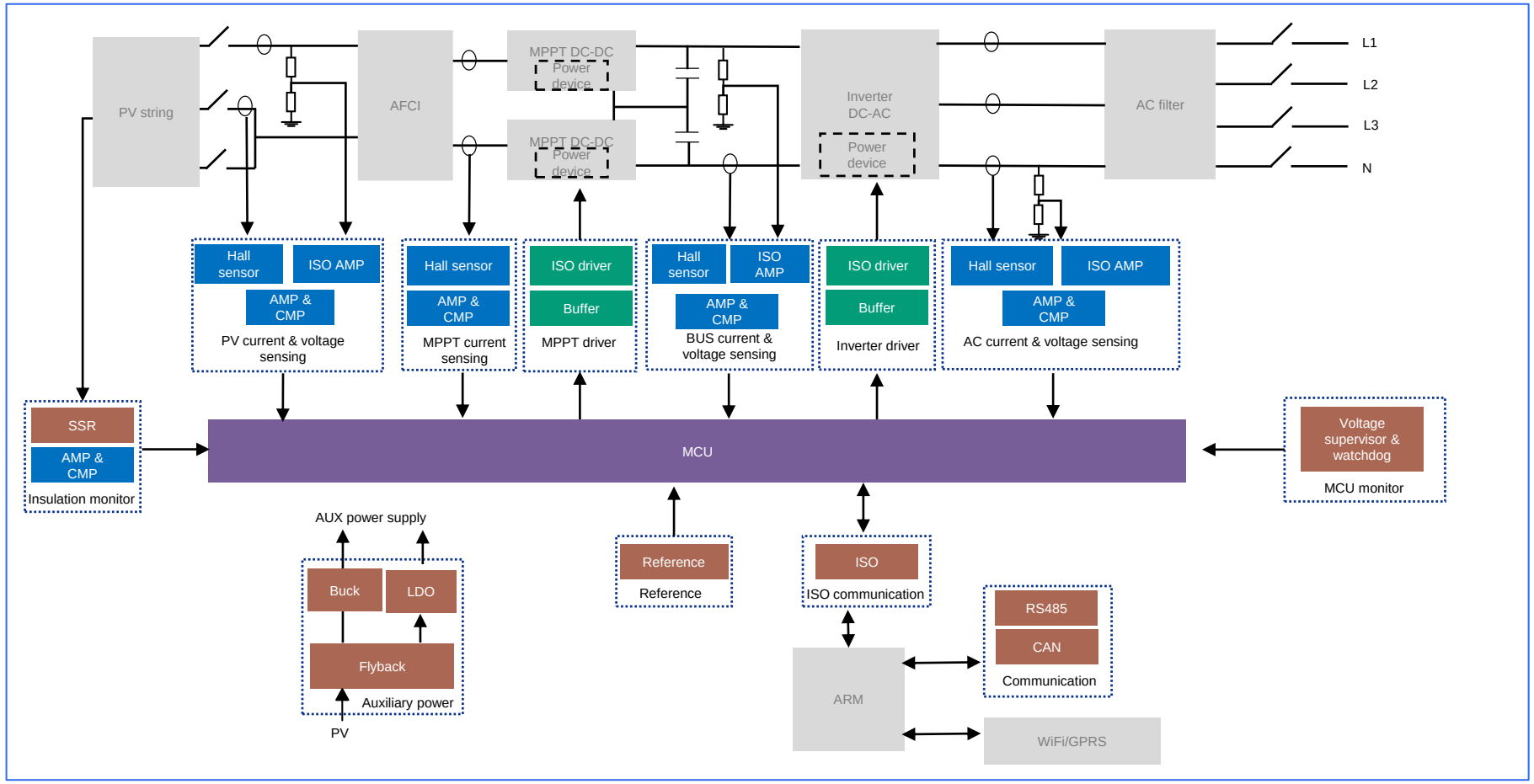
Comparator (LM29xx, LM3xx, NSCMP302x)

Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6801, NSI6801M)

Buffer (NCA8244)



Power management

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

Interface & digital isolation

CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)

Digital isolator (NSI824x)

RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808, NSD7850)
Solid-state relay (NSI7107,NSI7258)

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Centralized PV Inverter

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MCU

MCU (NS800RT5039, NS800RT5049, NS800RT7374, NS800RT7379D)

Current & voltage & temperature sensing

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

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, NSOPA610x, LM29xx, LM3xx)

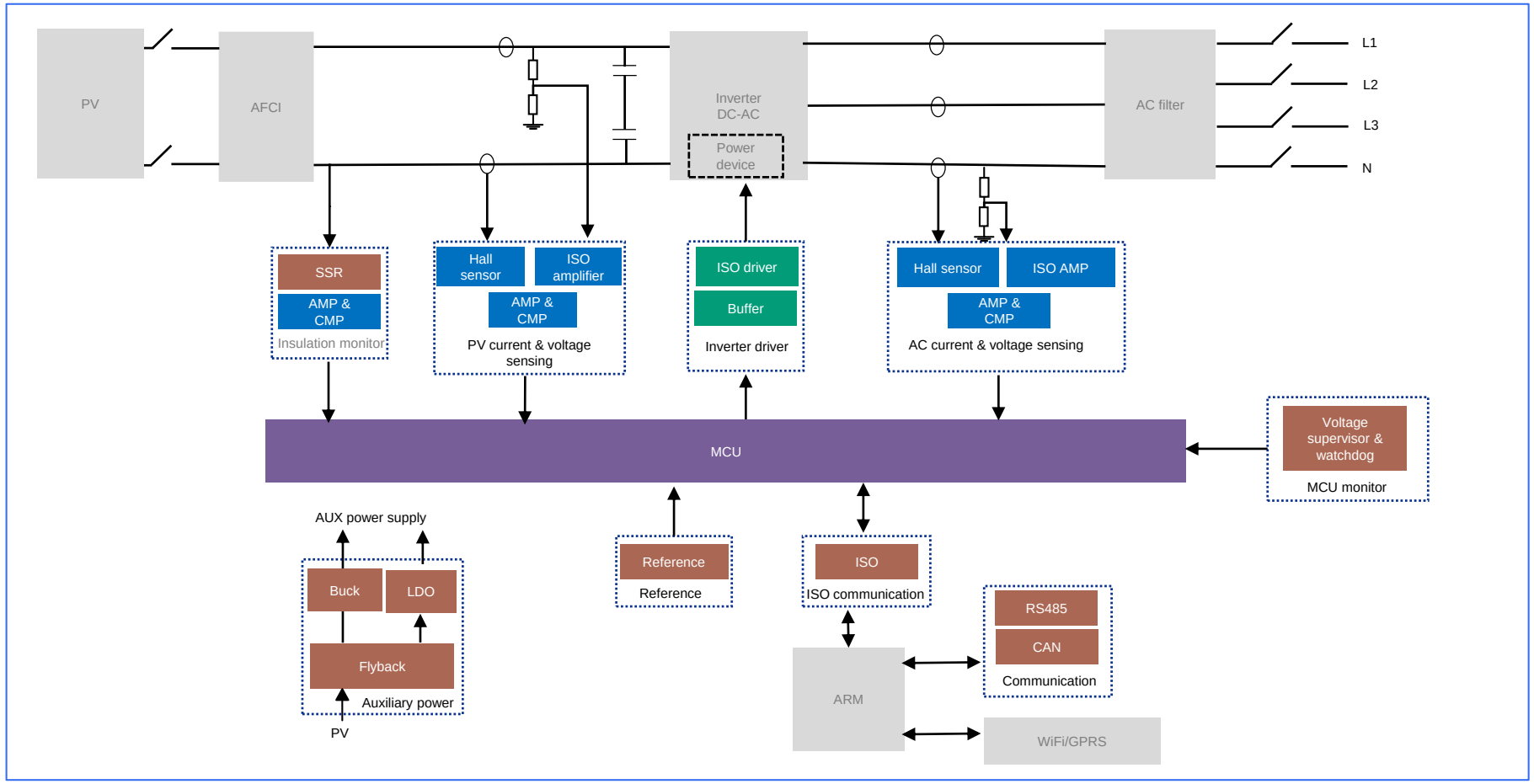
Comparator (LM29xx, LM3xx, NSCMP302x)

Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6801, NSI6801M, NSI6601xE, NSI6801E)

Buffer (NCA8244)



Power management

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

Interface & digital isolation

CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)

Digital isolator (NSI824x)

RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808, NSD7850)
Solid-state relay (NSI7107,NSI7258)

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Micro Inverter

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MCU

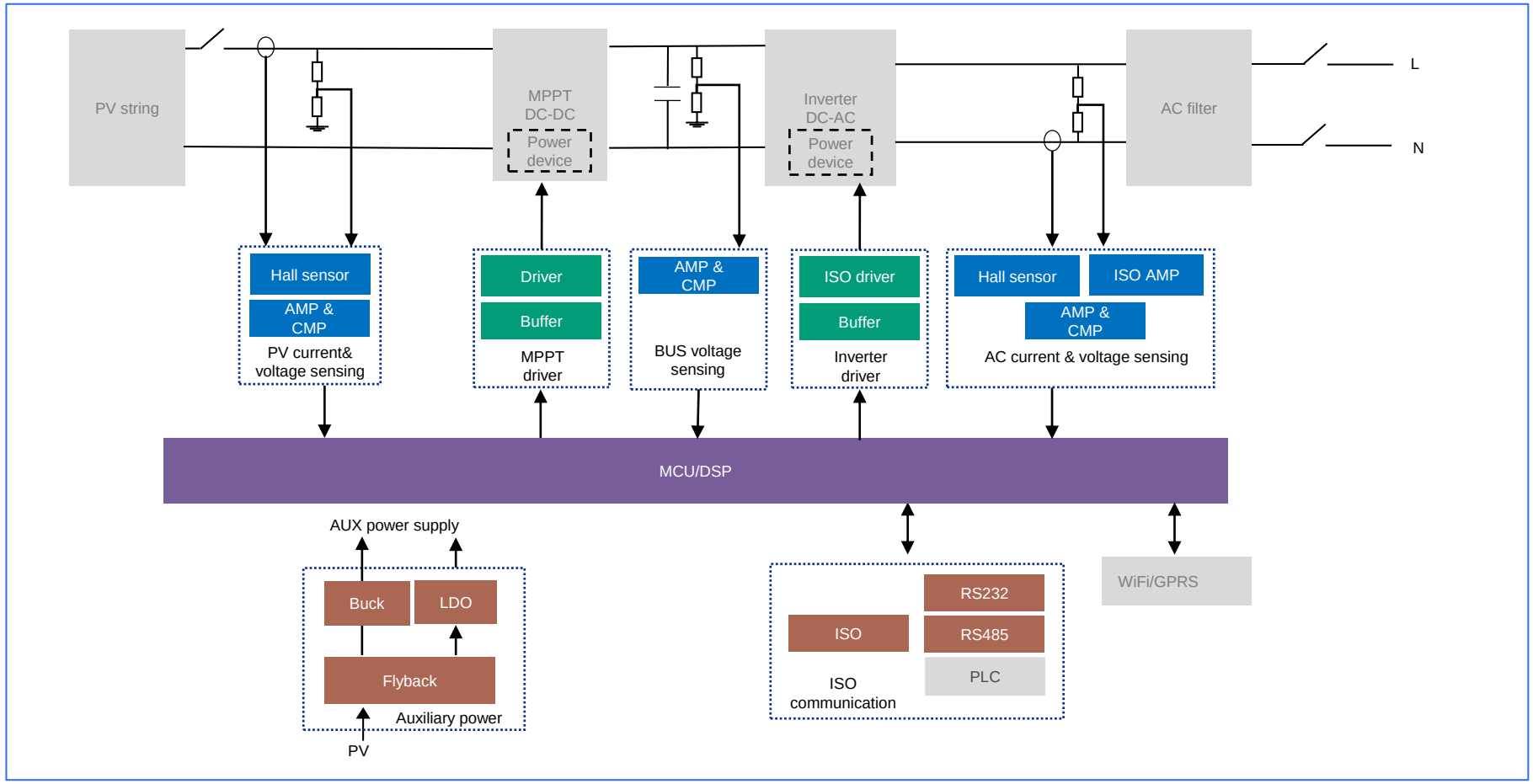
MCU (NS800RT5037, NS800RT3025, NS800RT1137)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA610x, LM29xx, LM3xx)
Comparator (LM29xx, LM3xx, NSCMP302x)

Gate driver & Buffer

Isolated driver (NSI6602V, NSI6602ME, NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E)
Non-isolated driver (NSD1026V, NSD1624, NSD2621, NSD2622N)
Buffer (NCA8244)



Power management

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

Interface & digital isolation

Digital isolator (NSI824x, NIRS31, NIRS21)
Isolated power (NSIP884x, NSIP894x)
RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)
CAN transceiver (NCA1051A, NCA1042B, NSIP1042, NSI1050, NSI1042)

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Residential Storage Inverter

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MCU

MCU (NS800RT5039)

Current & voltage & temperature & humidity sensing

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

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

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

Comparator (LM29xx, LM3xx, NSCMP302x)

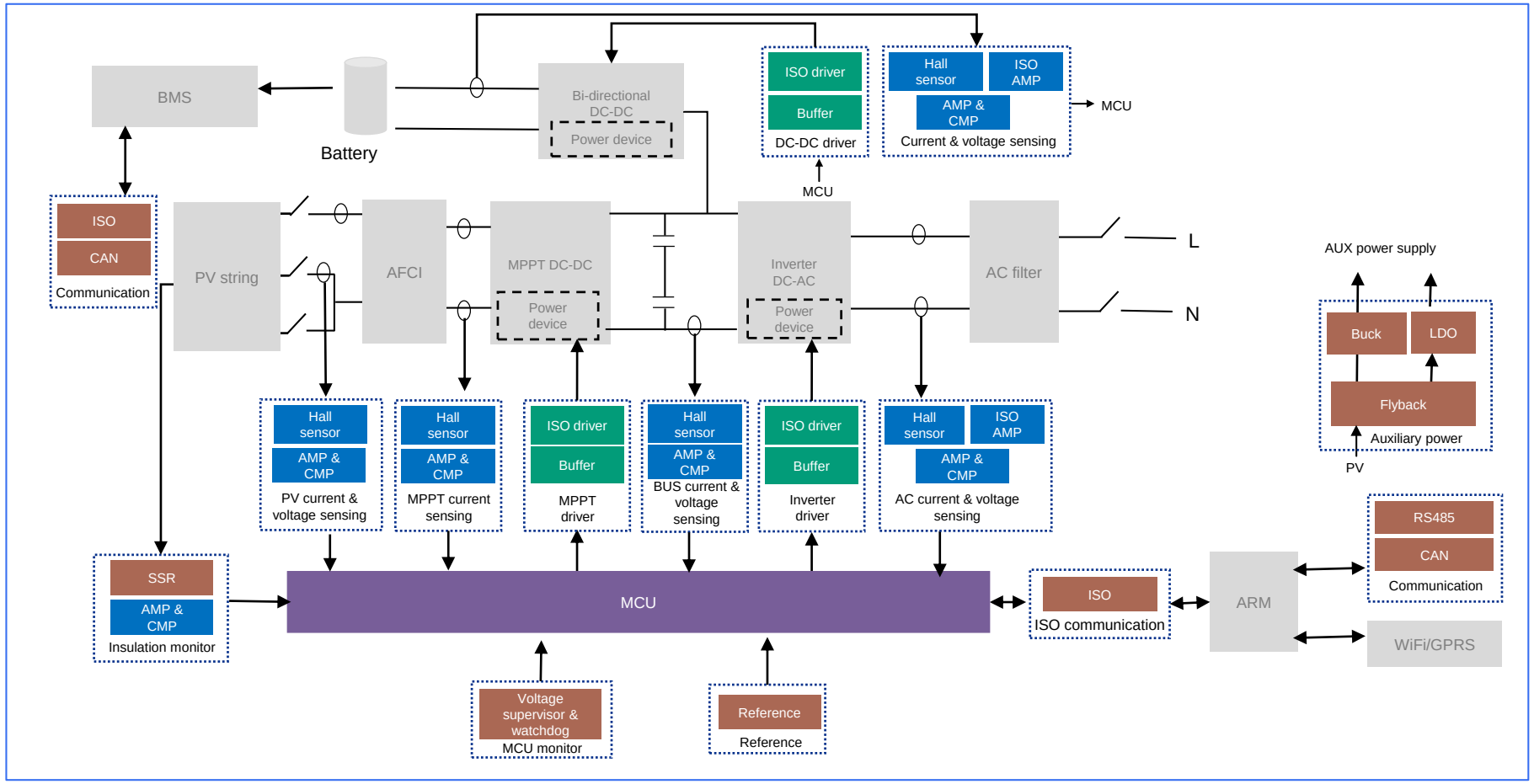
Temperature & humidity sensor (NST1002, NSHT3x)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E, NSI6602ME)

Isolated half bridge driver (NSI6602V)

Buffer (NCA8244)



Power management

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

Interface & digital isolation

Digital isolator (NSI824x)
RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)
CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808, NSD7850)
Solid-state relay(NSI7107,NSI7258)

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MCU

MCU (NS800RT7374, NS800RT7379D, NS800RT7P65, NS800RT7P65D)

Current & voltage & temperature sensing

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

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

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

Comparator (LM29xx, LM3xx, NSCMP302x)

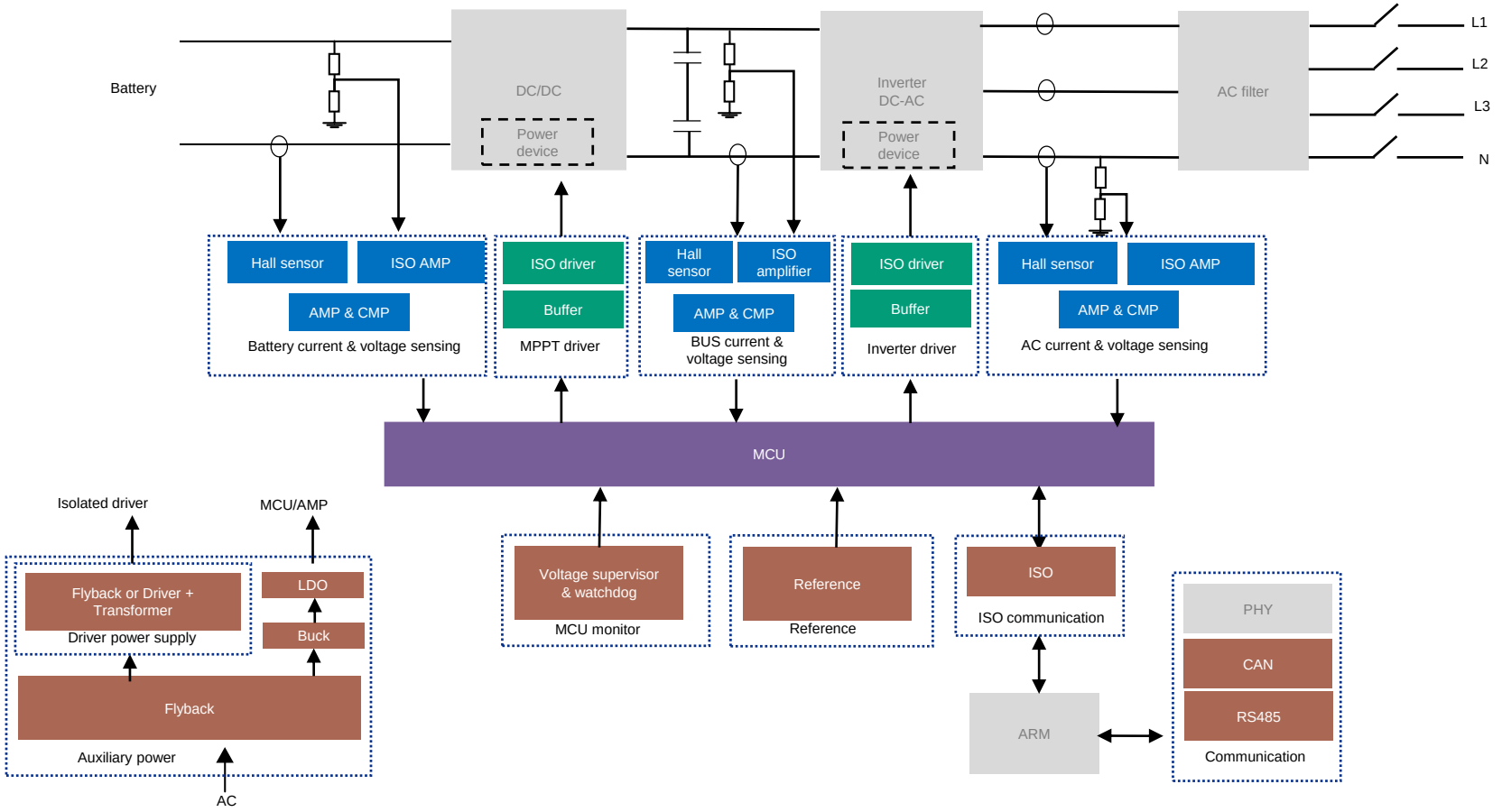
Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601xE, NSI6801, NSI6801E, NSI68515, NSI6611, NSI6711)

Isolated half bridge driver (NSI6602V)

Buffer (NCA8244)



Power management

Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
LDO (NSR31xxx, NSR33xxx, NSR35xxx)
ISO power (NSI3266)

Interface & digital isolation

Digital isolator (NSI82xx)
RS485 (NSI83008xE, NCA3176, NSI83086)
CAN transceiver (NCA1051A, NCA1042B2, NSI1042)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808, , NSD7850)

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Portable Power Station

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MCU

MCU (NS800RT3025, NS800RT5039)

Current & voltage & temperature & humidity sensing

Hall current sensor (NSM201x, NSM211x)

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

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

Comparator (LM29xx, LM3xx, NSCMP302x)

Current sense amplifier (NSCSA21x, NSCSA240)

Temperature & humidity sensor (NST1002, NSHT3x)

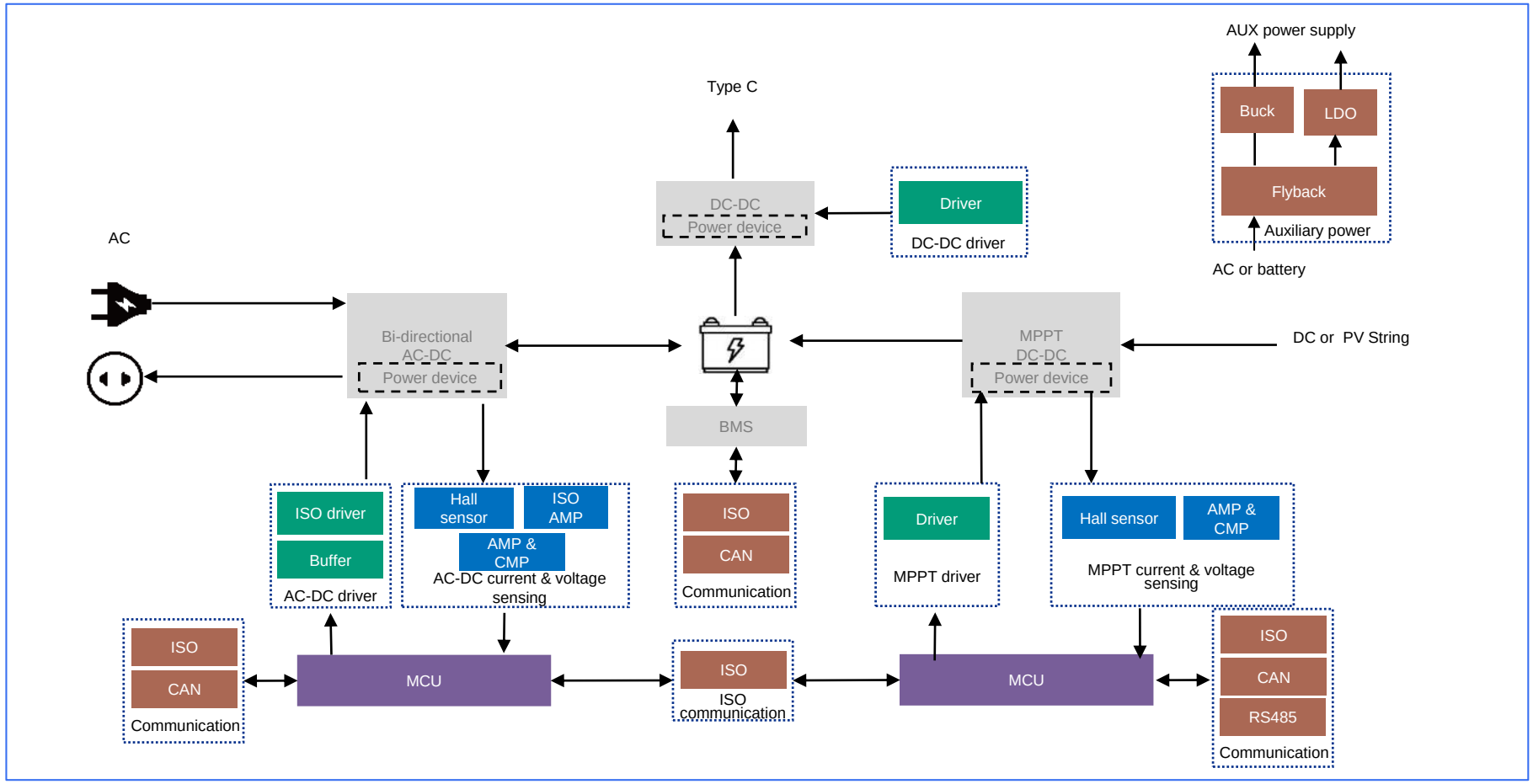
Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801E, NSI6801M, NSI6602ME)

Isolated half bridge driver (NSI6602V)

Non-isolated driver (NSD1624, NSD1026V, NSD262x)

Buffer (NCA8244)



Power management

Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)

Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

Interface & digital isolation

Digital isolator (NSI824x)

RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

CAN transceiver (NCA1043(B), NCA1042B, NSI1050, NSI1042)

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Energy Management System

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Power management

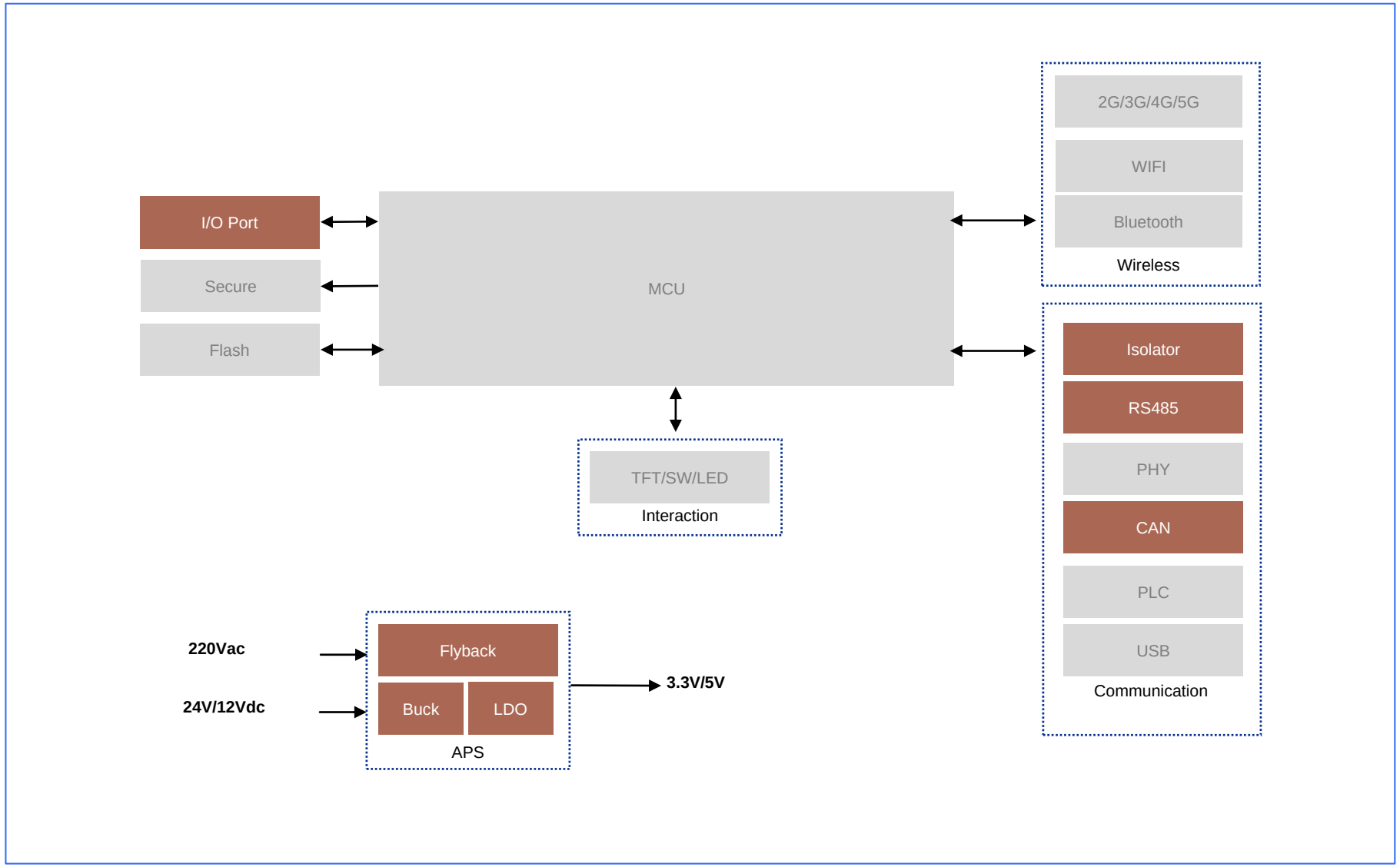
Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)

Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)

LDO (NSR31xxx, NSR33xxx, NSR35xxx)

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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Wind Power Converter

MCU

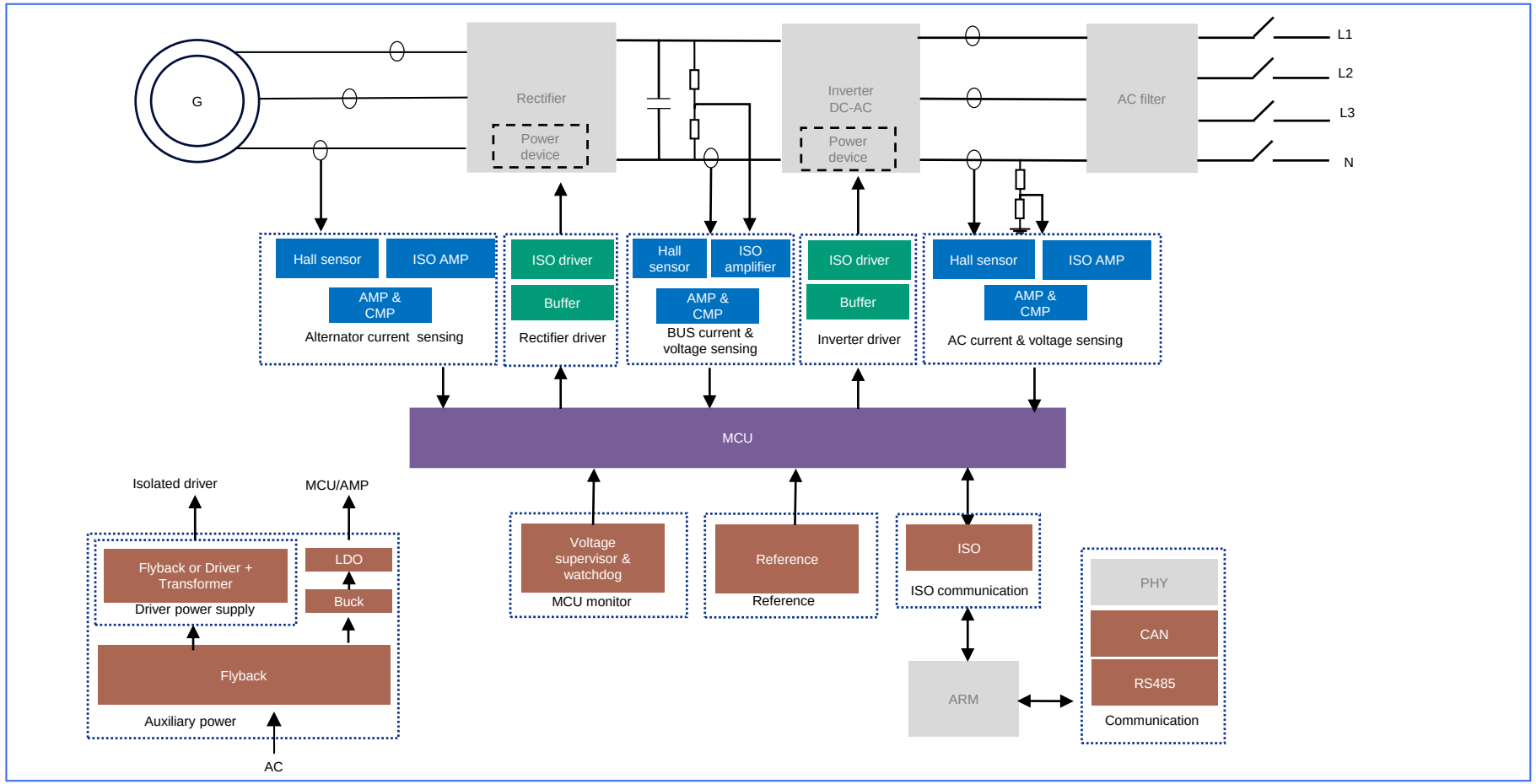
MCU (NS800RT7374, NS800RT7379D, NS800RT7P65, NS800RT7P65D)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA610x, LM29xx, LM3xx)
Comparator (LM29xx, LM3xx, NSCMP302x)
Temperature sensing (NST235, NST20, NST1001, NST1002)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601xE, NSI6801, NSI6801E, NSI6611, NSI6711, NSI68515)
Isolated half bridge driver (NSI6602V, NSI6602ME)
Buffer (NCA8244)



Power management

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

Interface & digital isolation

Digital isolator (NSI82xx)
RS485 (NSI83008xE, NCA3176, NSI83086)
CAN transceiver (NCA1051A, NCA1042B2, NSI1042)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Voltage supervisor (NSR7808, , NSD7850)

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Control Panel Solution of DC Charger

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Current & voltage sensing

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, NSOPA610x, LM29xx, LM3xx)

Comparator (LM29xx, LM3xx, NSCMP302x)

Interface & digital isolation

Digital isolator (NSI824x, NIRS31, NIRS21)

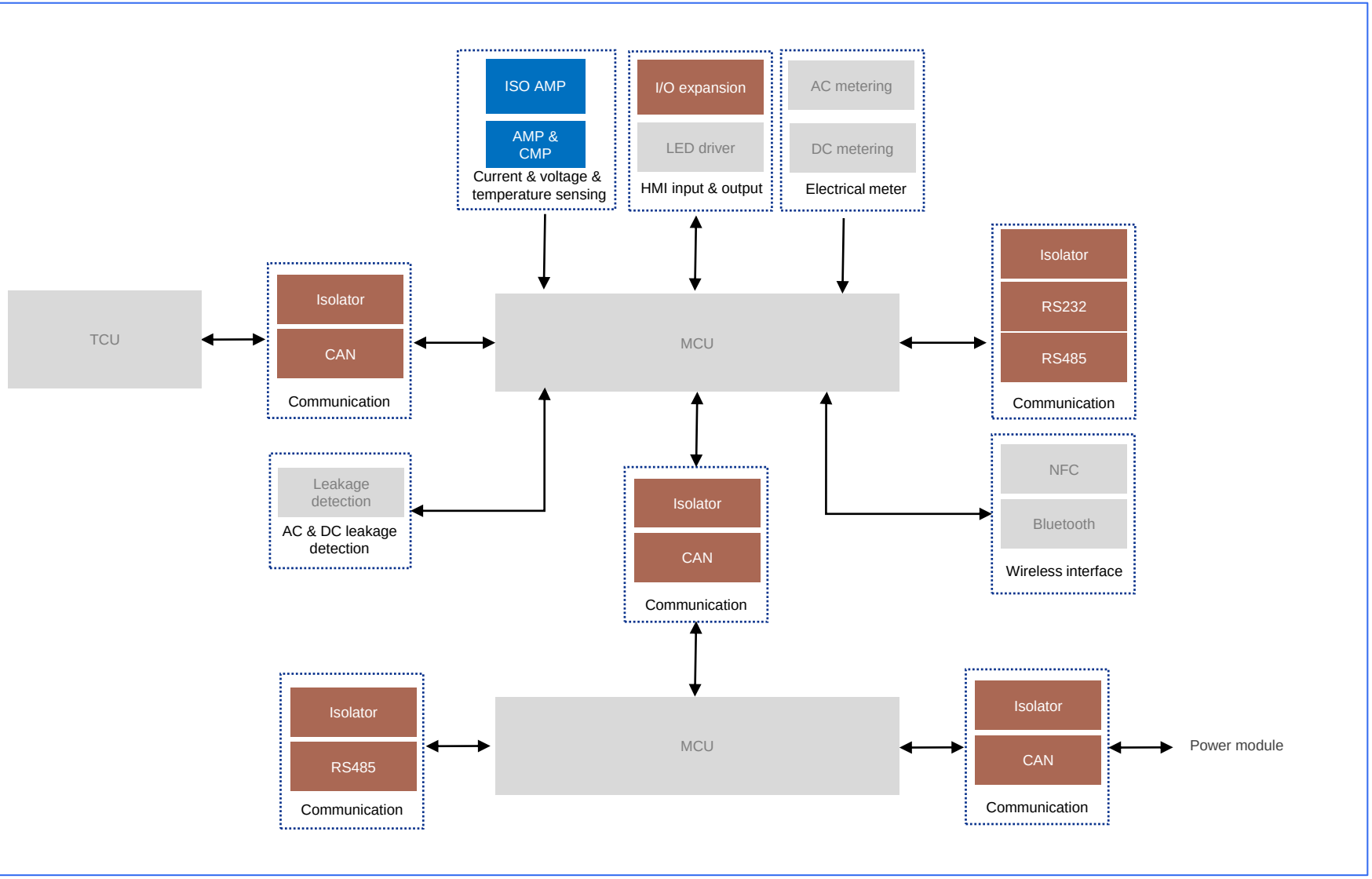
Isolated power (NSIP884x, NSIP894x)

CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)

RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Others

I/O expander (NCA9555)



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Power Module

MCU

MCU (NS800RT5039, NS800RT3025, NS800RT1137)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x, NSM2311)

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, NSOPA610x, LM29xx, LM3xx)

Comparator (LM29xx, LM3xx, NSCMP302x)

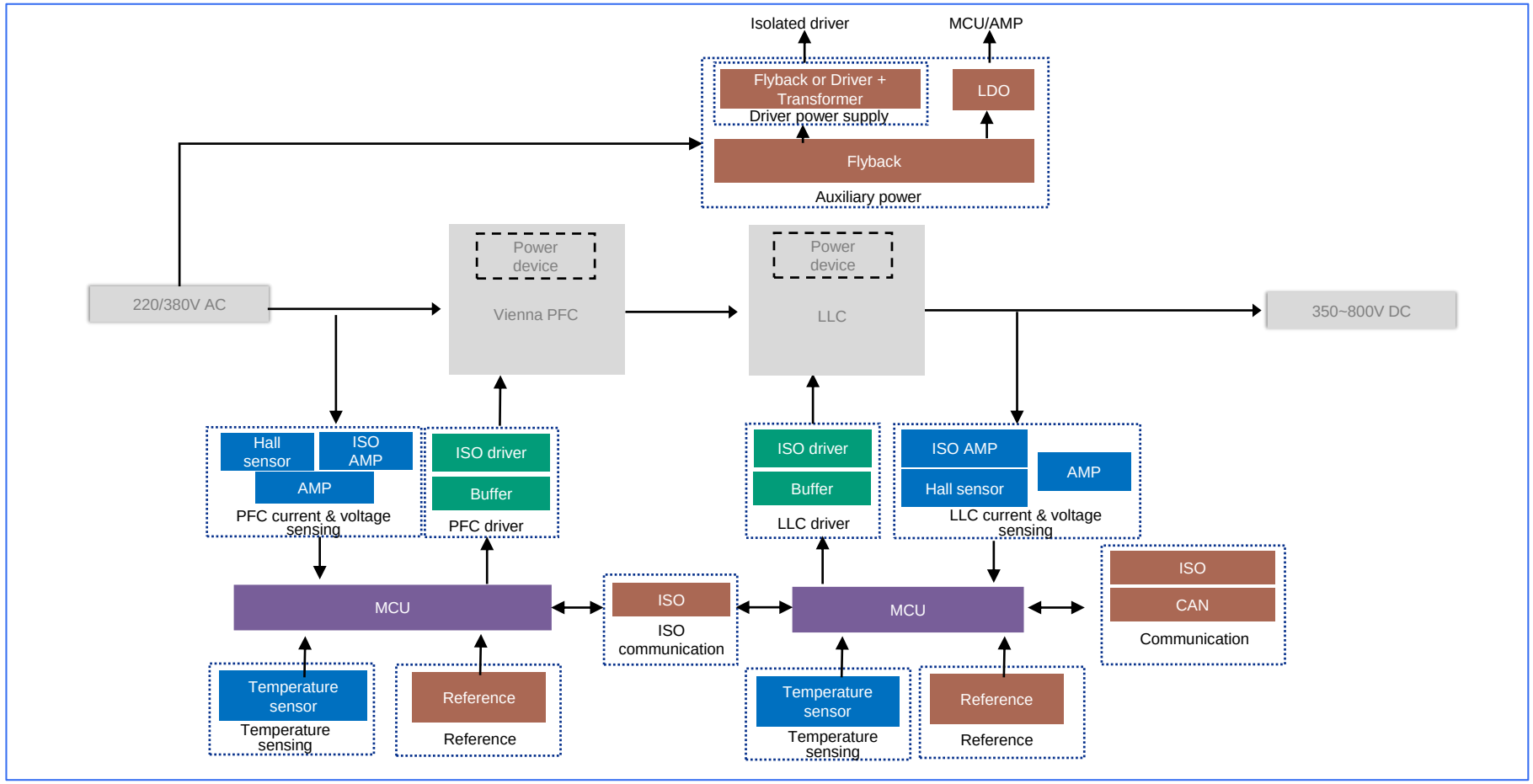
Temperature sensor (NST235, NST20)

Gate driver & motor driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801M, NSI6801E)

Non-isolated driver (NSD1026V)

Buffer (NCA8244)



Power management

LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)

Interface & digital isolation

Digital isolator (NSI824x, NIRS31, NIRS21)

Isolated power ((NSIP884x, NSIP894x)

CAN transceiver (NCA1051A, NCA1042B, NSI1050, NSI1042)

RS485 (NSI83086, NSI83085, NCA3176, NSIP83086)

Reference & others

Reference (NSREF30xx, NSREF31xx)

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MCU

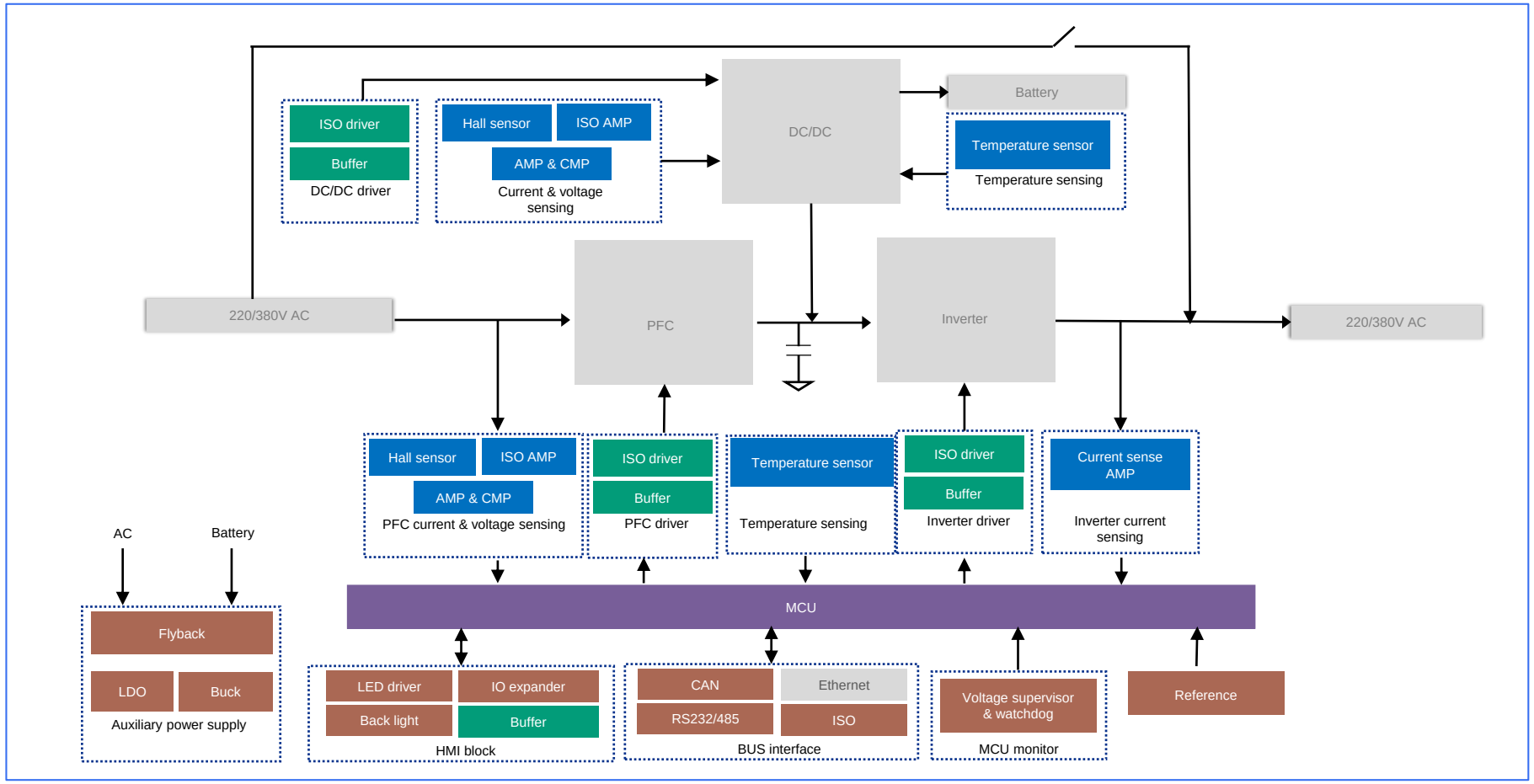
MCU (NS800RT5039, NS800RT3025, NS800RT1137, NS800RT7379D)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x, NSM2311)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA084, NSOPA610x, LM29xx, LM3xx)
Comparator (LM29xx, LM3xx, NSCMP302x)
Current sensing (NSCSA21x, NSCSA24x)
Temperature sensor (NST235, NST20)

Gate driver & Buffer

Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801, NSI6801E)
Isolated half bridge driver (NSI6602V)
Non-isolated driver (NSD1624, NSD1026V)
Buffer (NCA8244)



Power management

LDO (NSR31xxx, NSR33xxx, NSR35xxx)
Flyback (NSR284x, NSR28C4x, NSR2240x, NSR2260x)
Buck (NSR10Axx, NSR104xx, NSR106xx, NSR114xx, NSR1103x)
Voltage supervisor (NSR7808)

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
I/O expander (NCA9555)

Interface & digital isolation

Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
Isolated power (NSIP884x, NSIP894x)
CAN transceiver (NSI1042, NSI1050, NCA1051A, NCA1042B)
RS485 (NSI83085, NSI83086, NCA3485)

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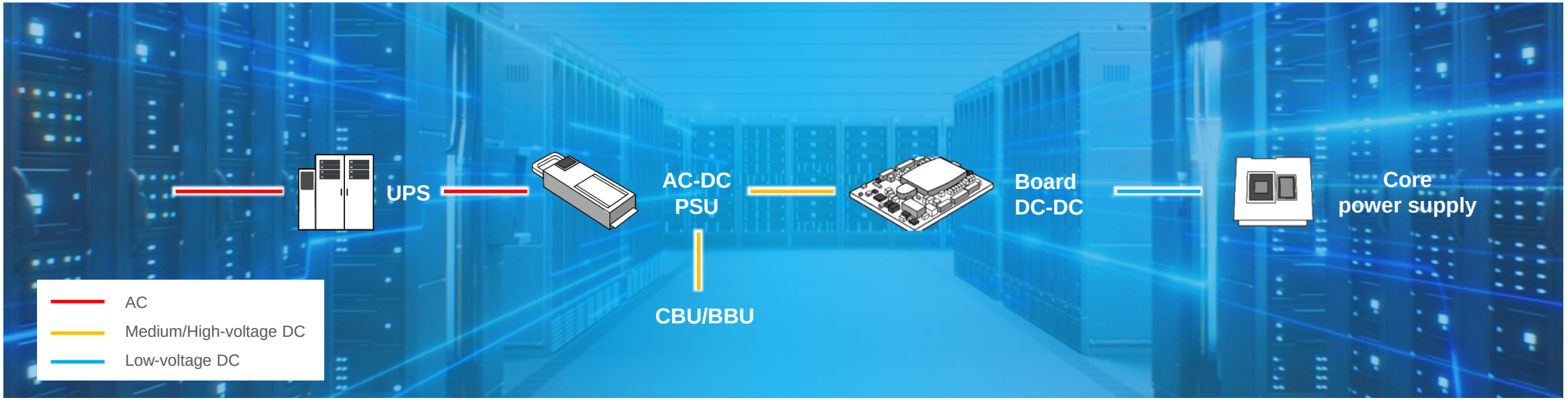
Power Supply System Solution



UPS

- ISO/Non-ISO driver IC
- ISO current/Voltage sensing IC
- Hall current sensor
- Digital isolator, ISO interface (w/o ISO power) IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- MCU

AC-DC Power Supply

- ISO/Non-ISO driver IC
- ISO current/Voltage sensing IC
- Hall current sensor
- Digital isolator, ISO interface (w/o ISO power) IC
- Flyback/Buck/LDO/power monitoring IC
- General operational amplifier
- High-precision voltage reference
- MCU

DC-DC Power Supply

- ISO/Non-ISO driver IC
- Digital isolator
- Flyback
- General operational amplifier
- Power device

CBU/BBU

- ISO/Non-ISO driver IC
- ISO current/Voltage sensing IC
- Hall current sensor
- Digital isolator, ISO interface (w/o ISO power) IC
- Flyback/Buck/Oring
- General operational amplifier

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AC-DC Power Supply

MCU

MCU (NS800RT5039, NS800RT3025, NS800RT1137)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x, NSM204x)

Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))

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

Comparator (LM29xx, LM3xx, NSCMP302x)

Current sensing (NSCSA21x, NSCSA24x)

Temperature sensor (NST235, NST20)

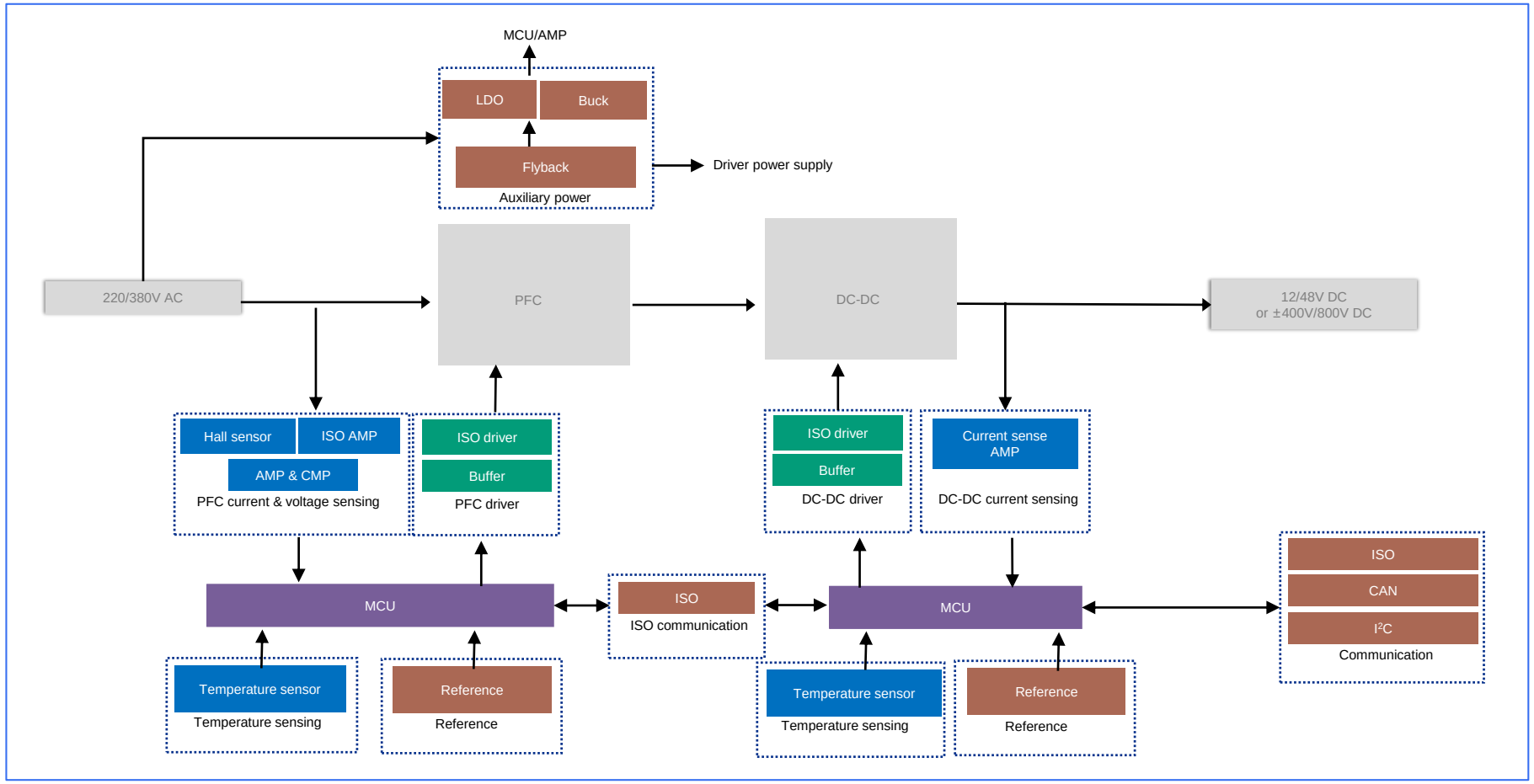
Gate driver

Isolated single-channel driver (NSI6601, NSI6601M, NSI6601xE, NSI6801E)

Isolated half bridge driver (NSI6602V)

Non-isolated driver (NSD1026V, NSD1624, NSD2621, NSD2622N)

Buffer (NCA8244)



Power management

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

Protection & reference & others

Reference (NSREF30xx, NSREF31xx)
Buffer (NCA8244)
Voltage supervisor (NSR7808)

Interface & digital isolation

Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
Digital isolator with integrated power supply (NIRSP31)
CAN transceiver (NSI1042, NSI1050, NCA1051A, NCA1042B)
I²C (NSI8200, NSI8100)

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DC-DC Power Supply

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MCU

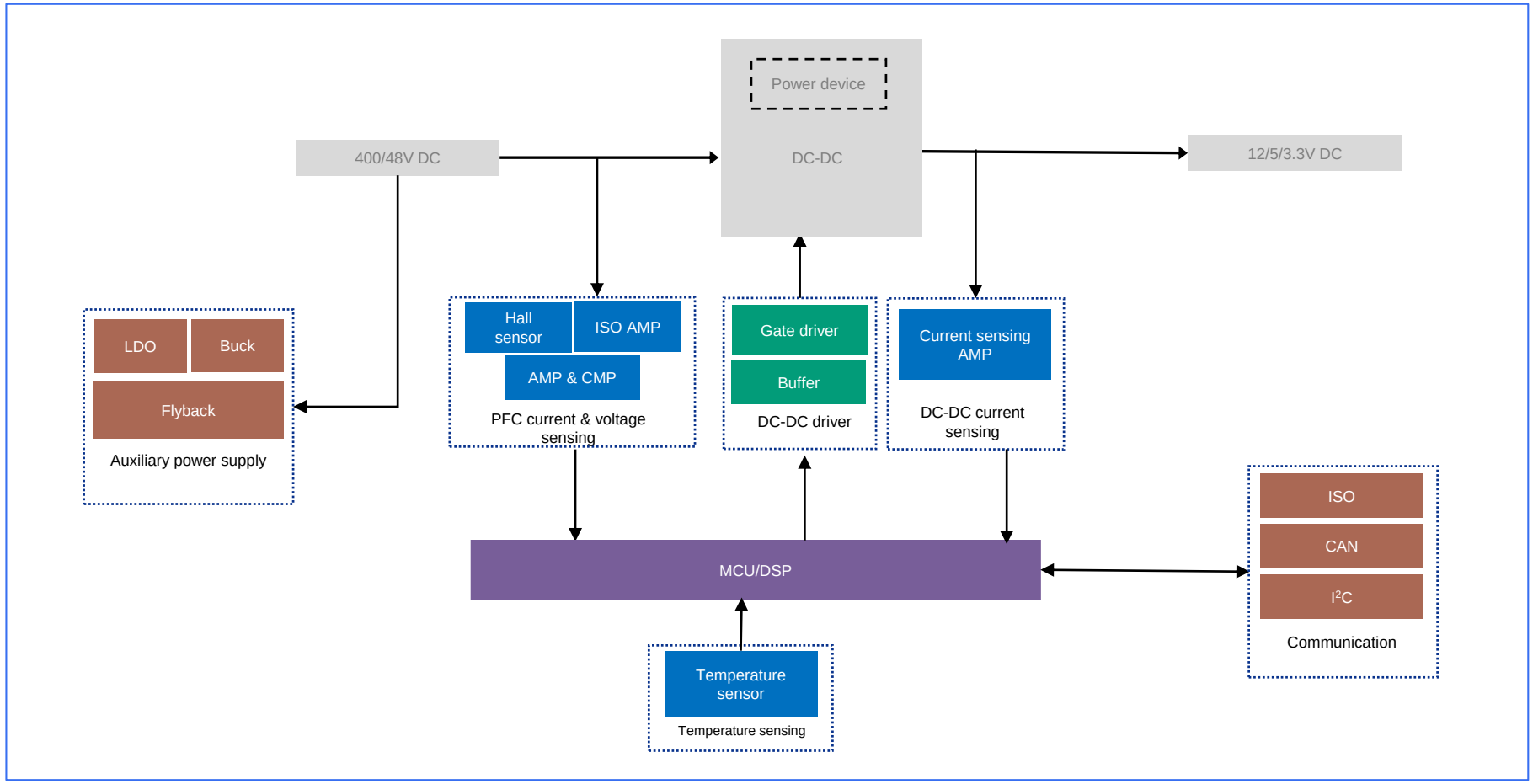
MCU (NS800RT1137, NS800RT3025)

Current & voltage & temperature sensing

Hall current sensor (NSM201x, NSM211x, NSM2311, NSM204x)
Isolated amplifier (NSI1400, NSI1300, NSI1200C, NSI1312, NSI1311, NSI1611, NSI36(C)xx(R))
Amplifier (NSOPA9xxx, NSOPA8xxx, NSOPA610x, LM29xx, LM3xx)
Comparator (LM29xx, LM3xx, NSCMP302x)
Current sensing (NSCSA21x, NSCSA24x)
Temperature sensor (NST235, NST20)

Gate driver

Isolated half bridge driver (NSI6602V, NSI6602ME)
Non-isolated driver (NSD1624, NSD1026V)
GaN driver (NSD2622N, NSD2012N, NSD2123)
Buffer (NCA8244)



Power management

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

Interface & digital isolation

Digital isolator (NSI822x, NSI823x, NSI824x, NIRS21, NIRS31)
Digital isolator with integrated power supply (NIRSP31)
CAN transceiver (NSI1042, NSI1050,NCA1051A, NCA1042B)
I²C (NSI8200, NSI8100)

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