



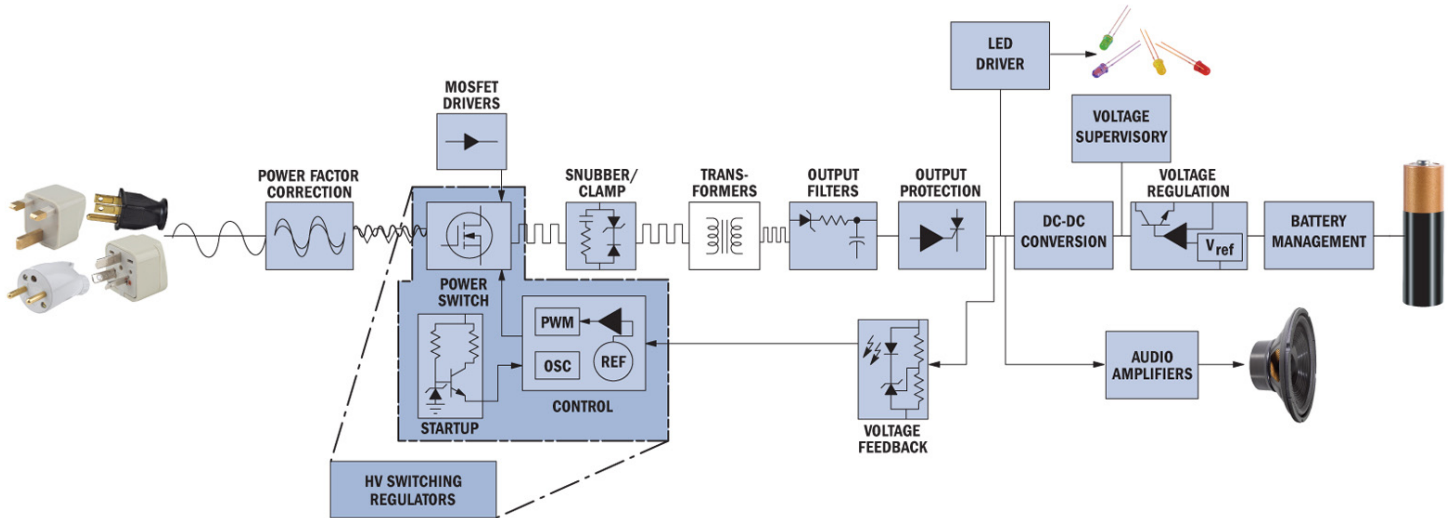
Analog Fast Facts



Analog Solutions from ON Semiconductor extend throughout a multitude of industries and applications - From the Socket to the Pocket™. Our devices include Power Management ICs, Signal Conditioning and Interface ICs, High-Speed Op Amps, Clock Management, and Standard and High Performance Logic. This "Fast Facts" brochure will provide you with a summary of our full range of products.

Power Management

The Power Management Chain – From the Socket to the Pocket™, and everything in between...



| AC-DC Offline Switching Controllers/Regulators | |
|---|--|
| Power Factor Correction Controllers | |
| Single Stage Flyback, Continuous Conduction Mode (CCM) | NCP1651 |
| Boost Pre-Regulator, CCM | NCP1650 |
| Follower Boost Pre-Regulator, CCM | NCP1653 |
| Boost Pre-Regulator, Critical or Boundary Conduction Mode (BCM) | MC33262, MC34262, MC33368 |
| Follower Boost Pre-Regulator, BCM | MC33260 |
| Boost Pre-Regulator, BCM or Discontinuous Conduction Mode (DCM) | NCP1601 |
| Combo PFC+PWM, DCM or BCM | NCP1603 |
| Flyback, High-Voltage Power Switching Regulators with Integrated Switch | |
| Internally Fixed Frequency PWM, without Dynamic Self Supply (DSS) | NCP1000, NCP1001, NCP1002 |
| Current Mode Fixed Frequency PWM with DSS | NCP1010, NCP1011, NCP1012, NCP1013, NCP1014, NCP1027 |
| Flyback, External Switch, Fixed Frequency | |
| with Dynamic Self Supply | NCP1201, NCP1216 |
| without Dynamic Self Supply | NCP1203, NCP1217, NCP1239F, NCP1212, NCP1230 |
| Flyback, External Switch, Variable Frequency, Quasi-Resonant Controllers | |
| with Dynamic Self Supply | NCP1207A, NCP1308, NCP1337 |
| without Dynamic Self Supply | NCP1205, NCP1377/B, NCP1378, NCP1381 |
| Forward, External Switch | |
| External Startup | NCP1212 |
| 500-700 V, Integrated Startup | NCP1216A, NCP1217A, NCP1280, NCP1239V |
| Secondary Side Controllers | |
| Quasi-Resonant Switch Mode Power Supplies | NCP4326, NCP4330 |

| DC-DC Converters | |
|--|---|
| Isolated Topologies | |
| Flyback/Forward | MC33023, MC34023, CS51221, CS51021A/2A, CS5124 |
| Flyback | NCP1030/1 |
| Push-Pull | MC33025, MC34025 |
| Non-Isolated Topologies | |
| Buck (Step Down) | CS5211, NCP1580, NCV8800, NCP1595, NCP5422, NCP5425, CS51031, CS51033, CS51411/2/3/4, MC33166/7, MC34166/7, LM2574/5/6, NCP1575 |
| Boost (Step Up) | CS5171, CS5173, CS5172, CS5174, CS5112 |
| Multi Topology (Step-Up, Down, or Inverting) | MC33063A, MC34063A, NCV33063A, MC33163, MC34163, NCV33163 |
| Micro-Power, Low Voltage Buck (Step Down) | NCP1530, NCP1501, NCP1550 |
| Micro-Power, Low Voltage Boost (Step Up) | NCP1400A, NCP1402, NCP1403, NCP1406, NCP1410, NCP1411, NCP1422, NCP1421, NCP1450, NCP1423 |
| Charge Pump Converters | MAX1720, NCP1729, MAX828, MAX829 |

| DC-DC Switching for Computing | |
|-------------------------------|------------------------------------|
| Single Phase with DAC | CS5157H, MC33470, NCP5331 |
| Gate Drivers | NCP5351, NCP5355, NCP3418B |
| CPU Multi-Phase Controllers | NCP5318, NCP5381, NCP5371, NCP5314 |
| DDR Controller | NCP5214 |

| Drivers | |
|---------------------|---|
| Dedicated Drivers | CS41xx, UAA2xx |
| Display/LED Drivers | NCP5005/6/7/8, NCP1406, NCP5603, NCP1521/2 |
| Load/Relay Drivers | NCV7xx, MDC3xx, NUD3xx, NCP54xx |
| MOSFET/IGBT Drivers | MC33151, MC33152, NCV33152, MC33153, MC34151, MC34152 |

Linear Voltage Regulation

| | |
|---|--|
| General Purpose | MC78LC, MC33565, MC78LXXA, NCV78LXXA, MC33160, MC34160, MC78MXX/A, MC78MXX/A, MC78XX/A, NCV78XX, MC78TX/A, MC79LXXA, MC79MXX, MC79XX/A, LM317, NCV317, LM350, LM337 |
| Low Drop Out, Fixed Output Voltage, <400 mA | MC33761, NCP500, NCP502, NCP511, NCP512, NCP553, NCP562, NCP563, NCP662, NCP663, NCV553, NCV8184, MC78BC, CS8101, CS8151/C, CS9201, CS9202, L4949, NCV4949, LM2931/A, NCV2931/A, LP2950C/AC, LP2951C/AC, NCV2951, CS8321, NCP551, NCV551, NCP561, NCP5426, NCV8501, NCV8502, NCP582, NCP583, NCP623, MC78PC, NCV4269, NCV4279, NCP580, NCP584, NCP585, NCV4299, MC33275, NCV8518 |
| Low Drop Out, Fixed Output Voltage, ≥400 mA | CS5253B, CS8122, CS8126, CS8129, MC33269, MC34268, NCP1086, NCP1117, NCV1117, NCP3335, NCP630, NCP631, NCP5661, NCP5662, NCP5663, NCV4275, NCV4276, NCV8141, NCV8503, NCV8504, NCV8505, NCV8506, NCP565 |
| Multiple Output | CS8363, CS8183, CS8361, CS8371, CS8156, CS8161, MC33567, MC33762, NCV8509, NCP4672, NCP5504, NCV5504, NCP4523, MC33765 |
| Adjustable Voltage | LP2951C/AC, NCV2951, LM2931C/AC, NCV2931C, NCV8501, NCV8502, NCV8503, NCV8504, CS8182, NCP1086, NCP565, NCP2860, NCP5661, NCP5662, NCP5663, CS5253-1, NCP1117, NCV1117, MC33269, NCV33269, NCP3335A, NCP3334, NCP600 |

Voltage Reference

| | |
|-------------------|--------------------------------|
| Voltage Reference | NCP100, TLV431, TL431, NCV1009 |
|-------------------|--------------------------------|

Voltage Supervisory

| | |
|---------------------|-------------------------------------|
| Voltage Supervisory | MAX809/10, NCP301-5, NCP803, NCP400 |
|---------------------|-------------------------------------|

Battery Management

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|--------------------------------|------------------------------------|
| Charge Controllers | MC33340, MC33342, MC33341, NCP1835 |
| Overvoltage Charger Protection | NCP345, NCP346 |

Audio Power Amplifiers

| | |
|------------------------|------------------|
| Audio Power Amplifiers | NCP2892, NCP4894 |
|------------------------|------------------|

Signal Conditioning

Comparators

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|--------------------|--|
| Dual Comparators | LM29xx, LM39xx, NCV29xx, NE52xx |
| Quad Comparators | LM23xx, LM29xx, LM33xx, MC33xx, NCV2xx |
| Single Comparators | LM21x, LM31x, NCS22xx |

Compandors

| | |
|------------|----------------|
| Compandors | NE57xx, SA57xx |
|------------|----------------|

Operational Amplifiers

| | |
|-----------------|---|
| General Purpose | LM20xx, LM22x, LM25x, LM29xx, LM30xx, LM32x, MC33xx, NCV2xx |
| High Current | TCA03xx |
| High Speed | NCS25xx, NE59xx |
| Low Noise | LM8xx, MC33xx, NE55xx |
| Low Power | MC33xx, LM358, MC33179 |
| Low Voltage | MC33xxx, NCS20xx, NCS71xx, NE52xx |

Interface & Specials

Interface & Special Devices

| | |
|--------------------------------|---|
| Balanced Modulator/Demodulator | MC1496 |
| Data Transmission | MC14xx, MC26xx, MC34xx, MC75xx, NCV2500, NCV7361A |
| Smartcard Interface ICs | NCN60xx |
| Sensor Interface | CS1124, CS41163 |

Interface & Special Devices (cont.)

| | |
|--------------------|--|
| Timers | MC1455, NCV1455 |
| Motor Control | CS4122, CS4192, MC33033, MC33035, MC33039, MC3479, TDA1035, NCV33033, NCV33035, NCV33039, NCV7702B |
| Automotive LIN/CAN | NCV7356, NCV7380, NCV7382 |

Clock Management

Clock Management

| | |
|------------------------|--|
| Clock Distribution | MC100LVPE1xx, NB7L11/14, MC100EP210/809, NB6L11/14, NBSG11/14/111, MC100LVPE22X, NB4N11M/S |
| Clock Synthesis | NBC124xx, NB4N507 |
| EMI Suppression Clocks | NB25xx, NB26xx, NB27xx, NB28xx, NB29xx |
| Skew Management | MC100EP195, MC100EP196, MC10/100E195, MC10/100E196 |
| Zero Delay Buffers | NB230x |
| Clock Buffers | NBSG16, MC100LVPE16, NB6L16, NB4L16M, NB4N316M |
| Clock Multiplexers | NBSG86, NB7L86, MC100EP5X |

Clock Management (cont.)

| Clock Generation | |
|------------------------------|--|
| Dividers/Prescalers | NB7N017, NB6L239, MC120XX, MC100EP3X, MC100LVPE3X, NB7L32M |
| Phase/Frequency Detectors | MC100EP40, MC100EP140 |
| VCO | MC100EL1648 |
| Clock Translators | |
| Single-Ended to Differential | MC100EPT20/22, MC100ELT20/22 |
| Differential to Single-Ended | MC100EPT21/23/26, MC100ELT21/23/26 |
| AnyLevel to LVDS | NB4N527S |

High Performance Logic

High Performance Logic

| | |
|---------------------|---------------------------|
| Buffers | MC10/100EP/LVEPxxxx |
| Coax Drivers | MC10EL/EP89 |
| Comparators | MC10E165x |
| Counters | MC10/100E/EP016, NB7N017 |
| Crosspoint Switches | NBSG72, NB4N840, NB4L85BM |
| Flip-Flops | MC10/100xx, NB4L52 |
| Gates | MC10xx, NB7Lxx, NBSGxx |
| Multiplexers | MC10/100EL/EP5x |

High Performance Logic (cont.)

| Receiver/Drivers | NBSG16, MC100LVPE16, NB6L16, NB4L16M, NB4N316M |
|------------------------------|--|
| Registers | MC10xx |
| Serial/Parallel Converters | MC10/100EP445/6 |
| Translators | |
| Single-Ended to Differential | MC100EPT20/22/622, MC100ELT20/22 |
| Differential to Single-Ended | MC100EPT21/23/26, MC100ELT21/23/26 |
| AnyLevel to LVDS | NB4N527S |

Standard Logic

Standard Logic

| | |
|---------------|--|
| 1-Gate | MC74xx1G, NL17xx, NLV1xx |
| 2-Gate | NL27xx |
| 3-Gate | NL37xx |
| Analog Switch | MC14xx, MC74xx, NLAS3xxx, NLAS4xxx, NLAS5xxx |
| Buffers | 74VCxx, MC14xx, MC74xx, NL17xx, NL27xx, NL37xx, NLSFxx |
| Bus Interface | 74VCxx, JLC1xx, MC74xx |
| Comparators | MC14xx |
| Counters | MC14xx, MC74xx |
| Flip Flops | 74VCxx, MC14xx, MC74xx, NL17xx |

Standard Logic (cont.)

| | |
|-----------------|--|
| Gates | MC14xx, MC74xx, NL17xx, NL27xx, NLSFxx |
| Inverters | MC14xx, MC74xx, NL17xx, NL27xx, NL37xx |
| Latches | 74VCxx, MC14xx, MC74xx |
| Miscellaneous | MC14xx, MC74xx, NLSFxx |
| Multiplexers | MC14xx, MC74xx, NL7Sxx, NLASxx |
| Multivibrators | MC14xx, MC74xx |
| Receiver/Driver | 74VCxx, MC74xx |
| Registers | MC14xx, MC74 |
| Translators | MC14xx |

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