**ON Semiconductor**<sup>®</sup>



BRD8054/D Rev. 0, Jun-2005

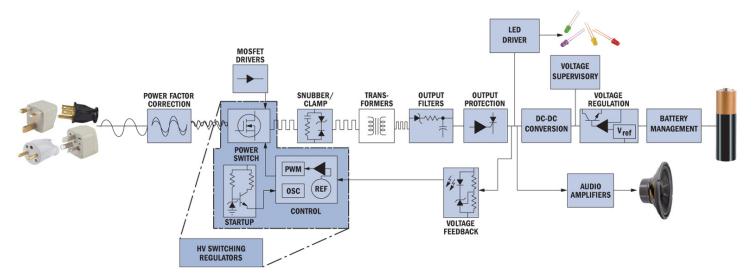
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# **Analog Fast Facts**

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 Integ	grated 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

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Linear Voltage Regulation	
General Purpose	MC78LC, MC33565, MC78LXXA, NCV78LXXA, MC33160, MC34160, MC78MXX/A, MC78MXX/A, MC78XX/A, NCV78XX, MC78TXX/A, MC79LXXA, MC79MXX, MC79XX/A, LM317, NCV317, LM350, LM337
Low Drop Out, Fixed Output Voltage, <400 mA	MC33761, NCP500, NCP502, NCP511, NCP512, NCP553, NCP662, NCP663, NCP663, 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, NCV4279, NCV8508, 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	
Charge Controllers	MC33340, MC33342, MC33341, NCP1835
Overvoltage Charger Protection	NCP345, NCP346
Audio Power Amplifiers	
Audio Power Amplifiers	NCP2892, NCP4894

# **Signal Conditioning**

Comparators	
Dual Comparators	LM29xx, LM39xx, NCV29xx, NE52xx
Quad Comparators	LM23xx, LM29xx, LM33xx, MC33xx, NCV2xx
Single Comparators	LM21x, LM31x, NCS22xx
Compandors	
Compandors	NE57xx, SA57xx

<b>Operational Amplifiers</b>	
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, NCN2500, 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	MC100LVEP1xx, NB7L11/14, MC100EP210/809, NB6L11/14, NBSG11/14/111, MC100LVEP22X, 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, MC100LVEP16, NB6L16, NB4L16M, NB4N316M
Clock Multiplexers	NBSG86, NB7L86, MC100EP5X

Clock Management (cont.)	
<b>Clock Generation</b>	
Dividers/Prescalers	NB7N017, NB6L239, MC120XX, MC100EP3X, MC100LVEP3X, NB7L32M
Phase/Frequency Detectors	MC100EP40, MC100EP140
VCO	MC100EL1648
<b>Clock Translators</b>	
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, MC100LVEP16, 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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