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*Power Solutions from ON Semiconductor*

# ASSP Product Selector Guide & Cross Reference



*Updated listing and part number cross reference of new Application Specific Standard Products offered by ON Semiconductor.*

## Ultra-Low Power SRAMs

Part Number	Density (Mb)	Organization	Voltage Range	Speed (ns)	Features	Package
N08L6182A	8	512 Kb x 16	1.65 - 2.2	70	Dual CE	48-BGA
N08L63W2A	8	512 Kb x 16	2.3 - 3.6	70	Dual CE	48-BGA
N04L63W2A	4	256 Kb x 16	2.3 - 3.6	55	Dual CE	44-TSOP2, 48-BGA
N04L63W1A	4	256 Kb x 16	2.3 - 3.6	70	Single CE	44-TSOP2, 48-BGA
N02L6181A	2	128 Kb x 16	1.65 - 2.2	70	Single CE	48-BGA
N02L63W2A	2	128 Kb x 16	2.3 - 3.6	55	Dual CE	44-TSOP2, 48-BGA
N02L63W3A	2	128 Kb x 16	2.3 - 3.6	55	Single CE	44-TSOP2, 48-BGA
N02L83W2A	2	256 Kb x 8	2.3 - 3.6	55	Dual CE	32-TSOP1, 32-STSOP1
N01L83W2A	1	128 Kb x 8	2.3 - 3.6	55	Dual CE	32-TSOP1, 32-STSOP1
N01L6183A	1	64 Kb x 16	1.65 - 2.2	70	Single CE	44-TSOP2, 48-BGA
N01L63W2A	1	64 Kb x 16	2.3 - 3.6	55	Dual CE	44-TSOP2, 48-BGA
N01L63W3A	1	64 Kb x 16	2.3 - 3.6	55	Single CE	44-TSOP2, 48-BGA

## Low Power Serial SRAMs

Part Number	Density (Kb)	Interface	Speed (MHz)	Package
N64S818HA	64	SPI	16	8-Pin SOIC/TSSOP
N64S830HA	64	SPI	20	8-Pin SOIC/TSSOP
N25S818HA	256	SPI	16	8-Pin SOIC/TSSOP
N25S830HA	256	SPI	20	8-Pin SOIC/TSSOP

## Clocks & Timers

Part Number	Memory	Freqs (PLL Dividers)	Clock Output	Temperature Range	Package
FS6128-04	ROM	Crystal x 2; 27 MHz out	1	0 to 70°C	8-SOIC
FS6128-07	ROM	Crystal x 2; 27 MHz out	1	0 to 70°C	8-SOIC
FS6131	RAM	Custom precision	2 differential; CMOS/Pseudo-ECL	0 to 70°C	16-SOIC
FS6370	EE	Custom precision	4	0 to 70°C	16-SOIC
FS6377	RAM	Custom, register-based	4	0 to 70°C	16-SOIC
FS7145	RAM	Custom precision	2 differential; CMOS/Pseudo-ECL	0 to 70°C	16-SOIC, 16-SSOP
FS7140	RAM	Custom precision	2 differential; CMOS/Pseudo-ECL	0 to 70°C	16-SOIC, 16-SSOP

## Power-over-Ethernet

Part	Standard	Current Level (mA)	System ESD	Cable ESD (kV)	Thermal Resistance (C/W)	Converter Type	Max Junction Temp	Package
NCP1080	IEEE802.3af	350	IEC 61000-4	3	37	Multimode	150°C	TSSOP20-EP
NCP1081	IEEE802.3at (draft 3.0)	1100	IEC 61000-4	3	37	Multimode	150°C	TSSOP20-EP

## LIN Transceiver

Part Number	Key Parameters					Standards			Features		
	Bus Speed (Baud)	Bus ESD HBM (KV)	Bus Voltage (V)	Sleep Mode Current ( $\mu$ A)	Supply Current Dominant Mode (mA)	LIN Transceiver LIN2.0	Diagnostic Bus ISO/DIN 9141	Automotive Qualified AEC Q100	Bare Die Option	Suitable for 12 V or 24 V Systems	Package
AMIS-30600	20K	$\pm$ 4	$\pm$ 40	55	1, 5	✓	✓	✓	✓	✓	8-SOIC

## CAN Transceivers

Part Number	Key Parameters					Standards				Features							
	Bus Speed (Baud)	Propagation Delay TxD to RxD (ns)	Bus ESD - HBM (KV)	Bus Voltage (V)	Input Voltage Compatibility (V)	ISO11898-2 Transceiver	ISO11898-3 Transceiver	GIFT Certified	IBEE Report	SPLIT Function	Wake-up Over Bus	Auto Baud	Long Network (> 50 M) Capability	Automotive Qualified AEC Q100	Industrial Qualified Level C	Bare Die Option	Package
AMIS-30660	1 M	245	4	$\pm$ 45	5	✓		✓	✓					✓		✓	8-SOIC
AMIS-30663	1 M	245	4	$\pm$ 45	3.3/5	✓								✓			8-SOIC
AMIS-41682	250 K	1400	6	$\pm$ 40	5			✓	✓					✓			14-SOIC
AMIS-41683	250 K	1400	6	$\pm$ 40	3.3/5		✓	✓						✓			14-SOIC
AMIS-42665	1 M	245	8	$\pm$ 35	5	✓	✓	✓	✓	✓	✓			✓		✓	8-SOIC
AMIS-42671	1 M	245	4	$\pm$ 45	5	✓						✓	✓		✓		8-SOIC
AMIS-42673	1 M	245	4	$\pm$ 45	3.3/5	✓							✓		✓		8-SOIC
AMIS-42675	1 M	245	8	$\pm$ 35	5	✓				✓			✓		✓	✓	8-SOIC
AMIS-42770	1 M	-	4	$\pm$ 45	5	✓							✓		✓		20-SOIC

## Industrial Process Automation

Part Number	Number of Receivers	I <sub>O</sub> Max ( $\mu$ A)	V <sub>CC</sub> Min (V)	Number of Drivers	t <sub>PLH</sub> Max ( $\mu$ s)	V <sub>CC</sub> Max (V)	Data Transmission Standard	I <sub>H</sub> max (mA)	Package
AMIS-49200	1	30000	4.75	1	4.7	6.2	FOUNDATION Fieldbus, PROFIBUS PA	0.001	44-LQFP
A5191HRT	1	670	3	1	0.02	5.5	HART	0.001	32-LQFP, 28-PLCC

## Low Power RF Transceiver

Part Number	Number of Receivers	I <sub>o</sub> Max (μA)	V <sub>cc</sub> Min (V)	Number of Drivers	t <sub>PLH</sub> Max (μs)	V <sub>cc</sub> Max (V)	I <sub>IH</sub> Max (mA)	Package
AMIS-52150	1	1000	2.3	1	100	3.6	0.001	20-SSOP

## High Side Drivers

Part Number	12 V Automotive Compliant	24 V Industrial Compliant	Communication Bus	Temperature Range	Package
AMIS-39100	✓		SPI	-40 to 125°C	28-SOIC
AMIS-39101		✓	SPI	-40 to 125°C	28-SOIC

## Stepper Motor Drivers

Part Number	Drivers		Features										User Accessible Settings				Diagnostics			Communication Bus			
	Max. Current @T <sub>J</sub> = 80° C (mA)	Max. Current @T <sub>J</sub> = 125° C (mA)	High Level Position Command from Master	Next (Micro) Step Pulse from Master	Positioner	Embedded Current Translator	ISafe Position Function	Autonomous Resume of Movement After Undervoltage Event	Position Switch Input	Stall Detection	Speed and Load Angle Output	5 V Voltage Regulator 50 mA Output	Package	Number of OTP Bytes	Selection of Max. and Min. Speed	Selection of Acceleration Slope	Safe Emergency Position	Thermal Warning and Shutdown	Low Temperature Warning		Open and Shorted Motor Pins	Undervoltage	
AMIS-30521	1600	800		✓		✓					✓		32-NQFP					✓		✓		SPI	
AMIS-30522	1600	800		✓		✓					✓	✓	32-NQFP					✓		✓		SPI	
AMIS-30623	800	800	✓		✓	✓	✓	✓	✓	✓			20-SOIC, 32-NQFP	6	✓	✓	✓	✓	✓	✓	✓	✓	LIN
AMIS-30624	800	800	✓		✓	✓	✓	✓	✓	✓			20-SOIC, 32-NQFP	6	✓	✓	✓	✓	✓	✓	✓	✓	I2C

## Audio DSPs

Product	Status	DSP Core	Coprocessor	MIPS	Dynamic Range (dB)	RAM IKB	Interfaces	Power Consumption @ 20 MHz	Standby Current (μA)	Analog Audio I/O	RoHS Compliant
BelaSigna 250 CABGA	Active	RCORE 16-bit	WOLA	60	88	42	I2S, PCM, UART, SPI, I2C, GPIO	5 mA	50	1	✓
BelaSigna 250 LFBGA	Active	RCORE 16-bit	WOLA	60	88	42	I2S, PCM, UART, SPI, I2C, GPIO	5 mA	50	1	✓
BelaSigna 200 WLCSP	Active	RCORE 16-bit	WOLA	40	83	42	GPIO, SPI, UART, I2C, PCM	5 mA	250	1	✓
BelaSigna 200 QFN	Active	RCORE 16-bit	WOLA	40	83	42	GPIO, SPI, UART, I2S, I2C, PCM	5 mA	250	1	✓



## Part Number Cross Reference

Description	Previous AMI Semiconductor Part Number	Current ON Semiconductor Part Number	Package
<b>Ultra-Low Power SRAMs</b>			
1 Mb, 1.8 V Low Power SRAM	20141-005-XTD	N01L6183AT27I	TSOP-44
1 Mb, 3 V Low Power SRAM	20141-006-XTD	N01L63W2AB25I	BGA-48
1 Mb, 3 V Low Power SRAM	20141-007-XTD	N01L63W2AT25I	TSOP-44
1 Mb, 3 V Low Power SRAM	20141-008-XTD	N01L63W3AB25I	BGA-48
1 Mb, 3 V Low Power SRAM	20141-009-XTD	N01L63W3AT25I	TSOP-44
1 Mb, 3 V Low Power SRAM	20141-009-XTP	N01L63W3AT25IT	TSOP-44
1 Mb, 3 V Low Power SRAM	20141-001-XTD	N01L83W2AN25I	TSOP-32
1 Mb, 3 V Low Power SRAM	20141-001-XTP	N01L83W2AN25IT	TSOP-32
1 Mb, 3 V Low Power SRAM	20141-002-XTP	N01L83W2AN5I	TSOP-32
1 Mb, 3 V Low Power SRAM	20141-003-XTD	N01L83W2AT25I	TSOP-32
1 Mb, 3 V Low Power SRAM	20141-003-XTP	N01L83W2AT25IT	TSOP-32
2 Mb, 1.8 V Low Power SRAM	20142-005-XTD	N02L6181AB27I	BGA-48
2 Mb, 1.8 V Low Power SRAM	20142-012-XTD	N02L6181AB28I	BGA-48
2 Mb, 3 V Low Power SRAM	20142-007-XTD	N02L63W2AB25I	BGA-48
2 Mb, 3 V Low Power SRAM	20142-008-XTD	N02L63W2AT25I	TSOP-44
2 Mb, 3 V Low Power SRAM	20142-009-XTD	N02L63W3AB25I	BGA-48
2 Mb, 3 V Low Power SRAM	20142-009-XTP	N02L63W3AB25IT	BGA-48
2 Mb, 3 V Low Power SRAM	20142-010-XTD	N02L63W3AB5I	BGA-48
2 Mb, 3 V Low Power SRAM	20142-010-XTP	N02L63W3AB5IT	BGA-48
2 Mb, 3 V Low Power SRAM	20142-011-XTD	N02L63W3AT25I	TSOP-44
2 Mb, 3 V Low Power SRAM	20142-011-XTP	N02L63W3AT25IT	TSOP-44
2 Mb, 3 V Low Power SRAM	20142-001-XTD	N02L83W2AN25I	TSOP-32
2 Mb, 3 V Low Power SRAM	20142-001-XTP	N02L83W2AN25IT	TSOP-32
2 Mb, 3 V Low Power SRAM	20142-002-XTD	N02L83W2AN5I	TSOP-32
2 Mb, 3 V Low Power SRAM	20142-002-XTP	N02L83W2AN5IT	TSOP-32
2 Mb, 3 V Low Power SRAM	20142-003-XTD	N02L83W2AT25I	TSOP-32
2 Mb, 3 V Low Power SRAM	20142-004-XTD	N02L83W2AT5I	TSOP-32
4 Mb, 3 V Low Power SRAM	20126-006-XTD	N04L63W1AB27I	BGA-48
4 Mb, 3 V Low Power SRAM	20126-006-XTP	N04L63W1AB27IT	BGA-48
4 Mb, 3 V Low Power SRAM	20126-007-XTD	N04L63W1AB7I	BGA-48
4 Mb, 3 V Low Power SRAM	20126-007-XTP	N04L63W1AB7IT	BGA-48
4 Mb, 3 V Low Power SRAM	20126-008-XTD	N04L63W1AT27I	TSOP-44
4 Mb, 3 V Low Power SRAM	20126-008-XTP	N04L63W1AT27IT	TSOP-44
4 Mb, 3 V Low Power SRAM	20126-009-XTD	N04L63W1AT7I	TSOP-44
4 Mb, 3 V Low Power SRAM	20126-010-XTD	N04L63W2AB27I	BGA-48
4 Mb, 3 V Low Power SRAM	20126-011-XTD	N04L63W2AT27I	TSOP-44
4 Mb, 3 V Low Power SRAM	20126-011-XTP	N04L63W2AT27IT	TSOP-44
4 Mb, 3 V Low Power SRAM	20126-012-XTD	N04L63W2AT7I	TSOP-44
8 Mb, 1.8 V Low Power SRAM	20131-006-XTD	N08L6182AB1E	BGA-48
8 Mb, 1.8 V Low Power SRAM	20131-001-XTD	N08L6182AB27I	BGA-48
8 Mb, 1.8 V Low Power SRAM	20131-002-XTD	N08L6182AB7I	BGA-48
8 Mb, 1.8 V Low Power SRAM	20131-002-XTP	N08L6182AB7IT	BGA-48
8 Mb, 3 V Low Power SRAM	20131-003-XTD	N08L63W2AB27I	BGA-48
8 Mb, 3 V Low Power SRAM	20131-004-XTD	N08L63W2AB7I	BGA-48

Description	Previous AMI Semiconductor Part Number	Current ON Semiconductor Part Number	Package
<b>Low Power Serial SRAMs</b>			
256 Kb, 1.8 V Serial SRAM	20190-005-XTD	N25S818HAS21I	SOIC-8
256 Kb, 1.8 V Serial SRAM	20190-006-XTD	N25S818HAT21I	TSSOP-8
256 Kb, 3 V Serial SRAM	20190-007-XTD	N25S830HAS22I	SOIC-8
256 Kb, 3 V Serial SRAM	20190-008-XTD	N25S830HAT22I	TSSOP-8
64 Kb, 1.8 V Serial SRAM	20190-001-XTD	N64S818HAS21I	SOIC-8
64 Kb, 1.8 V Serial SRAM	20190-002-XTD	N64S818HAT21I	TSSOP-8
64 Kb, 3 V Serial SRAM	20190-003-XTD	N64S830HAS22I	SOIC-8
64 Kb, 3 V Serial SRAM	20190-004-XTD	N64S830HAT22I	TSSOP-8
<b>Clocks and Timers</b>			
VCXO Clock Generator, 27 MHz	11640-892-XTD	FS6128-04G-XTD	SOIC-8
VCXO Clock Generator, 27 MHz	11640-892-XTP	FS6128-04G-XTP	SOIC-8
VCXO Clock Generator, 27 MHz	11640-843-XTD	FS6128-07-XTD	SOIC-8
VCXO Clock Generator, 27 MHz	11640-843-XTP	FS6128-07-XTP	SOIC-8
I2C Programmable PLL Clock	11274-502-XTD	FS6131-01G-XTD	SOIC-16
I2C Programmable PLL Clock	11274-502-XTP	FS6131-01G-XTP	SOIC-16
I2C Programmable PLL Clock	11274-901-XTD	FS6131-01i-XTD	SOIC-16
I2C Programmable PLL Clock	11274-901-XTP	FS6131-01i-XTP	SOIC-16
EE Programmable 3-PLL Clock	11575-819-XTD	FS6370-01G-XTD	SOIC-16
EE Programmable 3-PLL Clock	11575-819-XTP	FS6370-01G-XTP	SOIC-16
I2C Programmable 3-PLL Clock	11486-912-XTD	FS6377-01G-XTD	SOIC-16
I2C Programmable 3-PLL Clock	11486-912-XTP	FS6377-01G-XTP	SOIC-16
I2C Programmable 3-PLL Clock	11486-913-XTD	FS6377-01iG-XTD	SOIC-16
I2C Programmable 3-PLL Clock	11486-913-XTP	FS6377-01iG-XTP	SOIC-16
I2C Programmable PLL Clock 3.3 V	13715-806-XTD	FS7140-01G-XTD	SOIC-16
I2C Programmable PLL Clock 3.3 V	13715-806-XTP	FS7140-01G-XTP	SOIC-16
I2C Programmable PLL Clock 3.3 V	13715-805-XTD	FS7140-02G-XTD	SSOP-16
I2C Programmable PLL Clock 3.3 V	13715-805-XTP	FS7140-02G-XTP	SSOP-16
I2C Programmable PLL Clock 3.3 V	13715-102-XTD	FS7145-01-XTD	SOIC-16
I2C Programmable PLL Clock 3.3 V	13715-102-XTP	FS7145-01-XTP	SOIC-16
<b>LIN/CAN Transceivers</b>			
LIN Transceiver	OLINI-001-XTD	AMIS30600LINI1G	SOIC-8
LIN Transceiver	OLINI-001-XTP	AMIS30600LINI1RG	SOIC-8
CAN Transceiver	OCANH-002-XTD	AMIS30660CANH2G	SOIC-8
CAN Transceiver	OCANH-002-XTP	AMIS30660CANH2RG	SOIC-8
CAN Transceiver	OCANH-006-XTD	AMIS30660CANH6G	SOIC-8
CAN Transceiver	OCANH-006-XTP	AMIS30660CANH6RG	SOIC-8
CAN Transceiver	OCANG-001-XTD	AMIS30663CANG2G	SOIC-8
CAN Transceiver	OCANG-001-XTP	AMIS30663CANG2RG	SOIC-8
CAN Transceiver, Fault Tolerant	OCANM-001-XTD	AMIS41682CANM1G	SOIC-14
CAN Transceiver, Fault Tolerant	OCANM-001-XTP	AMIS41682CANM1RG	SOIC-14
CAN Transceiver, Fault Tolerant	OCANN-001-XTD	AMIS41683CANN1G	SOIC-14
CAN Transceiver, Fault Tolerant	OCANN-001-XTP	AMIS41683CANN1RG	SOIC-14
CAN Transceiver, Low Power	OTJAA-001-XTD	AMIS42665TJAA1G	SOIC-8

## Part Number Cross Reference

Description	Previous AMI Semiconductor Part Number	Current ON Semiconductor Part Number	Package
<b>LIN/CAN Transceivers (cont.)</b>			
CAN Transceiver, Low Power	OTJAA-001-XTP	AMIS42665TJAA1RG	SOIC-8
CAN Transceiver, Low Power	OTJAA-003-XTD	AMIS42665TJAA6L	SOIC-8
CAN Transceiver, Low Power	OTJAA-003-XTP	AMIS42665TJAA6RL	SOIC-8
CAN Transceiver, Long Networks	OICAB-001-XTD	AMIS42671ICAB1G	SOIC-8
CAN Transceiver, Long Networks	OICAB-001-XTP	AMIS42671ICAB1RG	SOIC-8
CAN Transceiver, Long Networks	OICAG-001-XTD	AMIS42673ICAG1G	SOIC-8
CAN Transceiver, Long Networks	OICAG-001-XTP	AMIS42673ICAG1RG	SOIC-8
CAN Transceiver, Low Power	OICAA-001-XTD	AMIS42675ICAA1G	SOIC-8
CAN Transceiver, Low Power	OICAA-001-XTP	AMIS42675ICAA1RG	SOIC-8
CAN Transceiver, Long Networks, Dual	OICAW-001-XTD	AMIS42770ICAW1G	SOIC-20
CAN Transceiver, Long Networks, Dual	OICAW-001-XTP	AMIS42770ICAW1RG	SOIC-20
<b>Modems and Transceivers</b>			
HART Modem	12197-507-XTD	A5191HRTLG-XTD	LQFP-32
HART Modem	12197-507-XTP	A5191HRTLG-XTP	LQFP-32
HART Modem	12197-508-XTD	A5191HRTPG-XTD	PLCC-28
HART Modem	12197-508-XTP	A5191HRTPG-XTP	PLCC-28
Fieldbus MAU Transceiver	19699-002-XTD	AMIS-49200-XTD	LQFP-44
Fieldbus MAU Transceiver	19699-002-XTP	AMIS-49200-XTP	LQFP-44
RF Transceiver with CDR	19293-001-XTD	AMIS-52150-XTD	SSOP-20
RF Transceiver with CDR	19293-001-XTP	AMIS-52150-XTP	SSOP-20
<b>High Side Drivers</b>			
Octal High-Side Driver	OPNPB-003-XTD	AMIS39100PNPB3G	SOIC-28
Octal High-Side Driver	OPNPB-003-XTP	AMIS39100PNPB3RG	SOIC-28
Octal High Side Driver	OPNPB-004-XTD	AMIS39101PNPB4G	SOIC-28
Octal High Side Driver	OPNPB-004-XTP	AMIS39101PNPB4RG	SOIC-28

Description	Previous AMI Semiconductor Part Number	Current ON Semiconductor Part Number	Package
<b>Stepper Motor Drivers</b>			
Stepper Motor Driver	0C521-002-XTD	AMIS30521C5212G	NQFP-32
Stepper Motor Driver	0C522-002-XTD	AMIS30522C5222G	NQFP-32
Stepper Motor Driver with LIN	0C623-009-XTD	AMIS30623C6239G	SOIC-20
Stepper Motor Driver with LIN	0C623-009-XTP	AMIS30623C6239RG	SOIC-20
Stepper Motor Driver with LIN	0C623-010-XTD	AMIS30623C623AG	NQFP-32
Stepper Motor Driver with I2C	0C624-004-XTD	AMIS30624C6244G	SOIC-20
Stepper Motor Driver with I2C	0C624-004-XTP	AMIS30624C6244RG	SOIC-20
Stepper Motor Driver with I2C	0C624-005-XTD	AMIS30624C6245G	NQFP-32
Stepper Motor Driver with I2C	0C624-005-XTP	AMIS30624C6245RG	NQFP-32
<b>Audio DSPs</b>			
BelaSigna 200	0W344-004-XTP	0W344-004-XTP	QFN-52
BelaSigna 200	0W344-005-XTP	0W344-005-XTP	QFN-52
BelaSigna 200	0W588-002-XUA	0W588-002-XUA	WLCSF
BelaSigna 250	0W633-001-XTP	0W633-001-XTP	CABGA
BelaSigna 250	0W888-002-XTP	0W888-002-XTP	LFBGA
<b>Power-over-Ethernet DC-DC</b>			
PoE-PD 13 W DC-DC	0HIPO-001-XTD	NCP1080DEG	TSSOP-20
PoE-PD 13 W DC-DC	0HIPO-001-XTP	NCP1080DER2G	TSSOP-20
PoE-PD 40 W DC-DC	0HIPO-002-XTD	NCP1081DEG	TSSOP-20
PoE-PD 40 W DC-DC	0HIPO-002-XTP	NCP1081DER2G	TSSOP-20

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Segyung Bristestone Co.	www.bristestone.com	(82) 2 3218 1511
Serial Microelectronics, HK	www.serialsys.com.hk	(852) 2790 8220
Tokyo Electron Device Co.	www.teldevice.co.jp	(81) 45 443 4000
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<b>Georgia</b>	Atlanta	e-Components	(888) 468-2444
<b>Idaho</b>	Eagle	First Source of Idaho, Inc.	(800) 282-9855
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