

ALIF SEMICONDUCTOR
7901 Stoneridge Drive, Pleasanton, CA 94588, USA

PROPRIETARY AND CONFIDENTIAL

| Item | Quantity | Reference | Description | Value | MFG | MFG_PN | Tolerance | Voltage | Status |
|------|----------|---|---|------------------------|---------------------------------|------------------------|-----------|---------|--------|
| 1 | 44 29 | C1,C2,C3,C5,C6,C8,C12,C15,C19,C20,C23,C25,C35,C36,C37,C38,C39,C435,C438,C439,C440,C441,C444,C451,C464,C465,C468,C469,C470,C471,C474,C475,C476,C477,C488,C490,C492,C494,C495,C509,C511 | CAP CER 0.1UF 10V X5R 0402 | 0.1uF | AVX Corporation | 0402ZD104KAT2A | 10% | 10V | DNP |
| 2 | 14 10 | C7,C9,C442,C450,C452,C453,C466,C467,C508,C510,C512,C513,C514,C516 | CAP CER 2.2UF 10V X5R 0402 | 2.2uF | TDK | C1005X5R1A225K050BC | 10% | 10V | DNP |
| 3 | 1 | C13 | CAP CER 47UF 10V X5R 0805 | 47uF | TDK | C2012X5R1A476M125AC | 20% | 10V | |
| 4 | 1 | C16 | CAP CER 22UF 6.3V X5R 0402 | 22uF | Samsung | CL05A226MQ6ZUN8 | 20% | 6.3V | |
| 5 | 2 | C21,C22 | CAP CER 24PF 50V COG/NPO 0402 | 24pF | CAL-CHIP ELECTRONICS, INC. | GMC04CG240F50NT | 1% | 50V | |
| 6 | 11 9 | C41,C59,C448,C449,C484,C485,C497,C498 | CAP CER 10UF 10V X5R 0402 | 10uF | Samsung | CL05A106MP5NUNC | 20% | 10V | DNP |
| 7 | 7 | C52,C53,C256,C433,C489,C496,C498 | CAP CER 1UF 16V X5R 0402 | 1uF | Murata | GRM155R61C105KA12D | 10% | 16V | |
| 8 | 6 | C442,C443,C452,C453,C466,C467 | CAP CER 2.2UF 35V X5R 0402 | 2.2uF | TDK Corporation | C1005X5R1V225K050BE | 10% | 35V | |
| 9 | 15 | C5,C25,C35,C36,C37,C39,C39,C441,C451,C444,C464,C465,C472,C473,C474 | CAP CER 0.1UF 10V X5R 0402 | 0.1uF | AVX Corporation | 0402ZD104KAT2A | 10% | 10V | DNP |
| 10 | 2 | C491,C493 | CAP CER 200PF 25V COG/NPO 0402 | 200pF | CAL-CHIP ELECTRONICS, INC. | GMC04CG201J25NT | 5% | 25V | |
| 11 | 2 | DS1,DS3 | 73nm LED Indication - Discrete 2V 0603 (1608) | 150060VS86000 | Würth Elektronik | 150060VS86000 | | | |
| 12 | 1 | DS2 | 89nm LED Indication - Discrete 2V 0603 (1608) | 150060YS86000 | Würth Elektronik | 150060YS86000 | | | |
| 13 | 1 | D1 | TVS DIODE 24V 44V SOT23-3 | NUP2105LT1G | ON SEMI | NUP2105LT1G | | | DNP |
| 14 | 1 | D2 | DIODE GEN PURP 75V 200MA SOD523F | 1N4448WT | ON Semiconductor | 1N4448WT | | | DNP |
| 15 | 1 | D3 | DIODE SCHOTTKY 30V 1A POWERDI123 | DFLS130L-7 | Diodes Incorporated | DFLS130L-7 | | | |
| 16 | 2 | FB1,FB2 | FILTER CHIP 120 OHM 1.5A 0402 | 120 | Murata | BLM15EG121SN1D | | | |
| 17 | 1 | J1 | CONN SKT SODIMM 200POS R/A SMD | 1473149-4 | TE Connectivity AMP Connectors | 1473149-4 | | | |
| 18 | 7 | J2,J36,J416,J417,J418,J419,J420 | CONN HEADER VERT 3POS 2.54MM | PBC03SAAN | Sullins Connector Solutions | PBC03SAAN | | | |
| 19 | 4 | J3,J5,J410,J411 | CONN HEADER VERT 2POS 2.54MM | PBC02SAAN | Sullins Connector Solutions | PBC02SAAN | | | |
| 20 | 1 | J4 | CONN JACK 1PORT 100 BASE-TX PCB | JX0011D21BNL | Pulse | JX0011D21BNL | | | |
| 21 | 1 | J6 | CONN HEADER SMD 20POS 1.27MM | FTSH-110-01-L-DV-007-K | Samtec Inc. | FTSH-110-01-L-DV-007-K | | | DNP |
| 22 | 2 | J10,J404 | CONN HEADER VERT 10POS 2.54MM | PBC05DABN | Sullins Connector Solutions | PBC05DABN | | | DNP |
| 23 | 1 | J14 | CONN AUDIO JACK 3.5MM 4COND SMD | SJ-43514-SMT | CUI INC | SJ-43514-SMT | | | DNP |
| 24 | 1 | J15 | CONN RCPT USB2.0 MICRO B SMD R/A | 10118194-0001LF | Amphenol ICC (FCI) | 10118194-0001LF | | | |
| 25 | 1 | J33 | CONN RCPT USB2.0 TYPEA 4POS R/A | 73725-0110BLF | Amphenol ICC (FCI) | 73725-0110BLF | | | |
| 26 | 2 | J34,J35 | TVS DIODE 5.5V 65ON | TPD4S012DRYR | Texas Instruments | TPD4S012DRYR | | | |
| 27 | 1 | J38 | CONN HEADER VERT 3POS 2.54MM | PBC03SAAN | Sullins Connector Solutions | PBC03SAAN | | | DNP |
| 28 | 3 | J407,J412,J413 | CONN HEADER VERT 20POS 2.54MM | PBC20SAAN | Sullins Connector Solutions | PBC20SAAN | | | |
| 29 | 2 | J408,J409 | CONN HEADER VERT 40POS 2.54MM | PBC20DAAN | Sullins Connector Solutions | PBC20DAAN | | | |
| 30 | 1 | J414 | CONN FPC 8POS 0.50MM R/A | XF2M-0815-1A | Omron Electronics Inc-EMC Div | XF2M-0815-1A | | | |
| 31 | 1 | J415 | CONN FPC 20POS 0.50MM R/A | XF2M-2015-1A | Omron Electronics Inc-EMC Div | XF2M-2015-1A | | | |
| 32 | 7 | J421,J422,J423,J424,J425,J428,J430 | CONN HEADER VERT 1POS | PBC01SAAN | Sullins Connector Solutions | PBC01SAAN | | | |
| 33 | 1 | J426 | CONN MICRO SD CARD PUSH-PULL R/A | 1040310811 | Molex, LLC | 1040310811 | | | |
| 34 | 1 | J427 | BATTERY HOLDER COIN 20MM PC PIN | BU2032-1 | MPD (Memory Protection Devices) | BU2032-1 | | | |

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|----|----|---|---|-----------------------------------|---------------------------------|--------------------------|------------------|--------|--------|-----|
| 35 | 1 | J432 | CONN RCPT 34POS SMD GOLD | BM20B(0.8)-34DS-0.4V(51) | Hirose Electric Co Ltd | BM20B(0.8)-34DS-0.4V(51) | | | | |
| 36 | 1 | L1 | FIXED IND 15UH 320MA 1.69 OHM | 15uH | Taiyo Yuden | CB2012T150K | | | DNP | |
| 37 | 2 | L2,L3 | FERRITE BEAD 100 OHM 0805 1LN | 100@100MHz | Taiyo Yuden | BKP2125HS101-T | | | | |
| 38 | 1 | L4 | FIXED IND 22UH 1.15A 120MOHM SMD | 22uH | Bourns Inc. | SRR5028-220Y | | | | |
| 39 | 2 | Q1,Q2 | MOSFET N-CH 20V 3.1A SOT323 | DMN2065UWQ-7 | Diodes Incorporated | DMN2065UWQ-7 | | | | |
| 40 | 64 | 62 | R1,R2,R3,R10,R18,R20,R26,R36,R40,R48,R59,R68,R77,R86,R94,R174,R177,R180,R182,R185,R188,R194,R196,R200,R202,R206,R208,R209,R220,R226,R300,R336,R339,R340,R341,R342,R343,R346,R348,R349,R367,R370,R378,R382,R399,R431,R434,R437,R440,R441,R442,R443,R444,R445,R446,R447,R448,R449,R450,R451,R452,R453,R454,R457 | RES 0402 0.0 OHM 1/10W Jumper SMD | 0 | Panasonic | ERJ-2GE0R00X | jumper | Jumper | DNP |
| 41 | 9 | R43,R329,R344,R379,R380,R400,R404,F | RES SMD 100K OHM 1% 1/16W 0402 | 100K | Vishay | CRCW0402100KFKED | 1% | | | |
| 42 | 2 | R243,R261 | RES SMD 120 OHM 5% 1/16W 0402 | 120 | Vishay | CRCW0402120RJNED | 5% | | DNP | |
| 43 | 4 | 2 | R246,R247,R333,R334 | RES SMD 390 OHM 1% 1/16W 0402 | 390 | Vishay | CRCW0402390RFKED | 1% | DNP | |
| 44 | 7 | R248,R265,R321,R322,R345,R383,R384 | RES SMD 1K OHM 1% 1/16W 0402 | 1K | Stackpole Electronics | RMCF0402FT1K00 | 1% | | | |
| 45 | 2 | R250,R394 | RES SMD 4.7K OHM 1% 1/16W 0402 | 4.7K | Vishay | CRCW04024K70FKED | 1% | | | |
| 46 | 4 | R251,R395,R397,R398 | RES SMD 4.7K OHM 1% 1/16W 0402 | 4.7K | Vishay | CRCW04024K70FKED | 1% | | DNP | |
| 47 | 8 | R252,R254,R255,R256,R257,R258,R259 | RES SMD 20 OHM 1% 1/16W 0402 | 20 | Vishay | CRCW040220R0FKED | 1% | | | |
| 48 | 1 | R260 | RES 2.49K OHM 1% 1/10W 0402 | 2.49K | KOA Speer Electronics, Inc. | RK73H1ERTTP2491F | 1% | | | |
| 49 | 18 | R303,R325,R326,R332,R350,R365,R385 | RES SMD 10K OHM 1% 1/10W 0402 | 10K | Panasonic | ERJ-2RKF1002X | 1% | | | |
| 50 | 18 | R318,R320,R335,R348,R349,R353,R354,R355,R356,R357,R358,R392,R438,R439,R455,R456,R458,R459 | RES 0402 0.0 OHM 1/10W Jumper SMD | 0 | Panasonic | ERJ-2GE0R00X | jumper | Jumper | DNP | |
| 51 | 1 | R330 | RES 7.5 OHM 1% 1/16W 0402 | 7.5 | Stackpole Electronics Inc | RMCF0402FT7R50 | 1% | | | |
| 52 | 1 | R331 | RES SMD 1.1K OHM 1% 1/16W 0402 | 1.1K | Vishay | CRCW04021K10FKED | 1% | | | |
| 53 | 2 | R368,R371 | RES SMD 1M OHM 1% 1/5W 0402 | 1M | Vishay | CRCW04021M00FKEDHP | 1% | | | |
| 54 | 2 | R374,R375 | RES SMD 649 OHM 1% 1/16W 0402 | 649 | Yageo | RC0402FR-07649RL | 1% | | | |
| 55 | 2 | R376,R377 | RES SMD 2.7K OHM 1% 1/16W 0402 | 2.7K | Bourns Inc. | CR0402-FX-2701GLF | 1% | | | |
| 56 | ± | 2 | R321,R381 | RES SMD 100K OHM 1% 1/16W 0402 | 100K | Vishay | CRCW0402100KFKED | 1% | | DNP |
| 57 | 6 | R386,R387,R388,R389,R390,R391 | RES SMD 51 OHM 1% 1/16W 0402 | 51 | Yageo | RC0402FR-0751RL | 1% | | | |
| 58 | 1 | R409 | RES 4.99K OHM 1% 1/16W 0402 | 4.99K | Venkel | CR0402-16W-4991FT | 1% | | | |
| 59 | 1 | R418 | RES SMD 12.4K OHM 1% 1/16W 0402 | 12.4K | YAGEO | RC0402FR-0712K4L | 1% | | | |
| 60 | 1 | R420 | RES 31.2K OHM 1% 1/16W 0402 | 31.2K | KOA Speer Electronics, Inc. | RN73H1ETTP3122F25 | 1% | | | |
| 61 | 1 | R424 | RES SMD 24.9K OHM 1% 1/16W 0402 | 24.9K | YAGEO | RC0402FR-0724K9L | 1% | | | |
| 62 | 1 | R460 | RES SMD 22.6K OHM 1% 1/16W 0402 | 22.6K | YAGEO | RC0402FR-0722K6L | 1% | | | |
| 63 | 3 | SW1,SW2,SW3 | SWITCH TACTILE SPST-NO 0.1A 16V | 7914G-1-000 | Bourns Inc. | 7914G-1-000 | | | | |
| 64 | 5 | TP15,TP16,TP17,TP18,TP19 | TestPad_SMD_DNP | TestPad_DNP | N/A | N/A | | | DNP | |
| 65 | 1 | U1 | RAM Sync 128Mbit 16M X 8 24-Pin TFBGA Tr | IS66WVO16M8DALL-200BLI | ISSI | IS66WVO16M8DALL-200BLI | | | | |
| 66 | 1 | U3 | IC TRANSCEIVER HALF 1/1 8SOIC | SN65HVD234D | TI | SN65HVD234D | | | DNP | |
| 67 | ± | 1 | U4,U53 | IC TRNSLTR BIDIRECTIONAL 16TQFN | MAX13035EETE+ | Maxim | MAX13035EETE+ | | DNP | |
| 68 | 1 | U6 | IC TRANSCEIVER HALF 1/1 10DFN | STR485LVQT | STMicroelectronics | STR485LVQT | | | DNP | |
| 69 | 1 | U7 | IC TRANSCEIVER FULL 2/2 20SSOP | MAX218EAP+ | Maxim Integrated | MAX218EAP+ | | | DNP | |
| 70 | 4 | U9,U10,U61,U62 | IC REG LIN POS ADJ 1.2A 10DFN | AP7167-FNG-7 | Diodes Incorporated | AP7167-FNG-7 | | | | |
| 71 | 1 | U44 | IC MULTIPLEXER DUAL 2:1 10TDFN | ISL54225IRTZ | Renesas Electronics America Inc | ISL54225IRTZ | | | | |
| 72 | 1 | U46 | IC LED DRIVER RGLTR DIM TSOT23-5 | CAT4139TD-GT3 | ON Semiconductor | CAT4139TD-GT3 | | | | |
| 73 | 2 | U47,U54 | RAMIS MIC MULTIMODE DGT TOP PORT | SPK0641HT4H-1 | Knowles | SPK0641HT4H-1 | | | DNP | |

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|----|---|---------|---------------------------------------|------------------------|--------------------------|------------------------|--|--|-----|
| 74 | 1 | U50 | IC DAC/AUDIO 24BIT 192K 16TSSOP | WM8524CGEDTR | Cirrus | WM8524CGEDT/R | | | DNP |
| 75 | 1 | U52 | MEMS OSC XO 24.5760MHZ CMOS SMD | ASEMB-24.576MHZ-LC-T | Abracon LLC | ASEMB-24.576MHZ-LC-T | | | DNP |
| 76 | 1 | U56 | SENSOR DIGITAL -55C-120C 8SOIC | DS1722S+T&R | Maxim Integrated | DS1722S+T&R | | | |
| 77 | 1 | U57 | IMU ACCEL/GYRO/TEMP I2C/SPI | ICM-42670-P | TDK InvenSense | ICM-42670-P | | | |
| 78 | 2 | U58,U59 | CRAWFORD MIC DGT I2S BOTTOM PORT | SPH0645LM4H-B | Knowles | SPH0645LM4H-B | | | |
| 79 | 1 | U60 | /PORT 10/100M ETHERNET PHYCEIVER WITH | RTL8201FR(I)-VD-CG | Realtek | RTL8201FR(I)-VD-CG | | | |
| 80 | 1 | U63 | 30 GAUSS, MONOLITHIC, HIGH PERFO | MMC5633NJL | Memsic Inc. | MMC5633NJL | | | |
| 81 | 1 | X3 | CRYSTAL 25.000MHZ 12PF SMD | SXTHM212AA074-25.000MT | Suntsu Electronics, Inc. | SXTHM212AA074-25.000MT | | | |

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