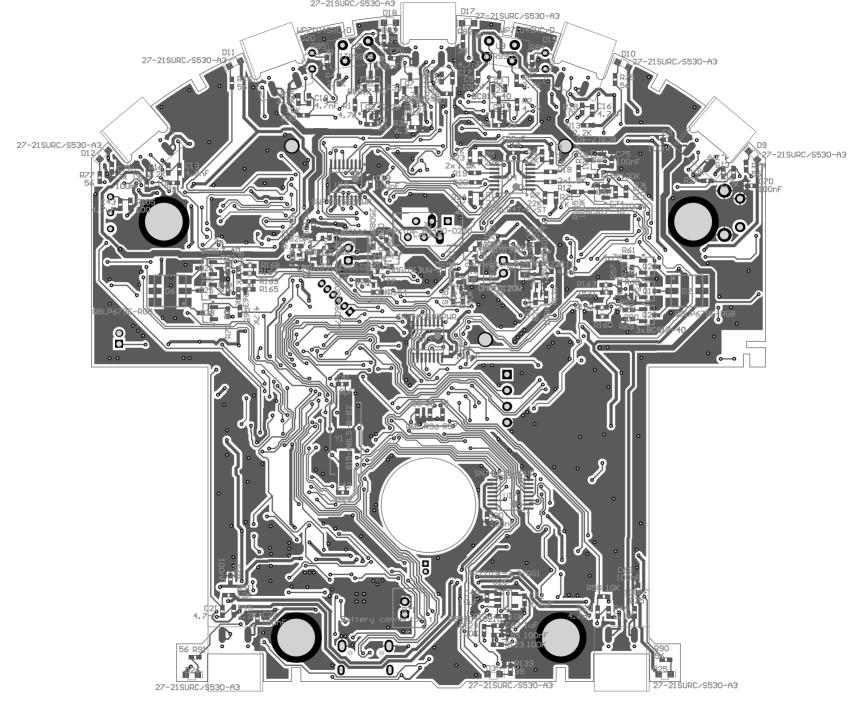


MicroSD-Astron 5190008-XA4-R



Quantity	Comment	Designator	Description	Footprint
	Motor connector 89400-022		Motor, General Kind	BAT-2
	Battery connector t 08940		Multicell Battery	BAT-2
	100nF 10uF	C1, C3, C5, C6, C7, C8, C9, C10, C11, C2, C31, C40, C46, C51, C52, C73, C7	Capacitor	CAPC 1005X05N CAPC 1005X05N
	51pF	C4. C64	Capacitor	CAPC 1005X05N
	4.7nF	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC 1005X05N
	4.7uF	C32, C43, C44, C45, C47, C48, C49, C	Capacitor	CAPC 1005X05N
	10uF X5R	C 34	Capacitor	CAPC 1005X05N
2		C41, C42		CAPC 1005X05N
2		C53, C54	Capacitor	CAPC 1005X05N
		C56, C61, C63 C57	Capacitor	CAPC 1005X05N
	1.5nF 47nF	C58, C59, C60	Capacitor Capacitor	CAPC1005X05N CAPC1005X05N
	19-21SURC/S530-A3/TR8	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIO C 1608X08N
	YLL-T50GRB-3-BJ-05	D2, D6, D27, D38	OND NOT COOK EVER COME COME	QBLP679E-RGB
	27-21SURC/S530-A3	D7, D9, D10, D11, D12, D17, D18, D2	SMD Red led right angle mount 2V	27-21 EVERLIGHT
	27-21/BHC-AN1P2/3C	D8, D31, D37	SMD Blue led right angle mount 3.3	27-21 Everlight Blue
	APTD1608SYCK	D13, D14, D15, D16, D21, D22, D23,	LED standard - CMS Helios SMD Ye	
	WP7104SRC/D	D19, D20	Red led 2V@20ma 57mcd	LED_TH_3MM_20MM
	APTD1608CGCK	D28, D29, D30	LED standard - CMS Helios SMD Gr	DIO C 1608X08N
	BAT54S	D33, D34	Schottky Barrier Double Diode	SOT23_N
5 1	2508056017Y2 Speaker	L1, L2, L3, L4, L5 LS1	SMD EMI Suppression Ferrite Bead Loudspeaker	INDC 2012X11L PIN2
1	TD4015BPN	MC1	Omnidirectional Back Electret Con	
	BC817-40	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9,	NPN General-purpose Transistor	SOT23 N
	4.7K	R1, R2, R57, R59, R61, R63, R64, R65	Resistor	RESC 1005X04N
2	33	R3, R5	120, Resistor	RESC 1005X04N
	2.7K	R4, R6	Resistor	RESC1005X04N
	22K	R7, R8, R9, R10, R11, R42, R43, R67,	120, Resistor	RESC1005X04N
	2.2K	R12, R13, R14, R15, R16, R32, R33, R		RESC 1005X04N
	1.5K 1K	R17, R18, R19, R20, R26, R46, R47	120	RESC1005X04N RESC1005X04N
	10K	R21, R22, R23, R24, R25, R48, R49, R R27, R28, R29, R30, R31, R50, R51, R		RESC 1005X04N
	6.2	R36, R37, R38, R39, R40, R54, R55	120	RESC 1005X04N
	56	R56, R58, R60, R62, R69, R72, R74, R		RESC 1005X04N
14	39	R66, R82, R83, R84, R85, R86, R87, R	Resistor	RESC1005X04N
	200	R68, R71, R98, R147	200	RESC1005X04N
	82	R70, R73, R100, R149	82	RESC 1005X04N
	100	R105, R106, R135, R150	Resistance, Resistor	RESC 1005X04N
	180 5.6K	R107, R137	Resistor	RESC 1005X04N
	100K	R115, R116 R119, R120, R121, R122, R123, R124,	Resistor Resistor	RESC 1005X04N RESC 1005X04N
	680K	R125	Resistor	RESC 1005X04N
	6.8K	R127	Resistor	RESC 1005X04N
5	820	R131, R151, R152, R153, R154	Resistor	RESC 1005X04N
1	47K	R132	Resistor	RESC1005X04N
1		R140	Resistor	RESC 1005X04N
	0 NCD1EVIJ102E0000	R160, R161, R168, R169, R170, R171	Resistor	RESC1005X04N
	NCP15XH103F03RC MicroSD-Astron 5190008-X	RT1 S1	Thermistors - NTC 10K OHM 1% 04 MicroSD Card connector 5190008-	RESC 1005X04L Astron 5190008-XA4-R
	SW-PB	S2	Switch	FSMRA2JH
	DMG1013UW-7	T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1	SOT65P210X100-3N
	DMG1012UW	T5, T6, T7, T8	Transistor MOSFET 1 x N, Pining :	SOT65P210X100-3N
	STM-LIS2DE12-LGA-12	U1		STM-LGA-12
	ITR9909	U2, U3	Everlight Opto Interrupter	ITR9909_LONG
	MCP6L04T-E/ST	U4, U5	1 MHz, 85 µA Quad Op Amp, 14-Pi	
	ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE
	SN74HC595PWR AP2112K-3.3TRG1	U13, U14, U15, U16, U17 U18	8-Bit Serial-Input/Serial or Prallel-0 300mA, Low Quiescent Current, Fa	
	PIC 24F J128GB106-I/PT	U19	General Purpose 16-Bit Flash Micro	
	IRM-3638T	U20	IR Receiver Module (38 kHz) for Re	
	MCP73871-2CAI/ML	U21	Stand-Alone System Load Sharing	
3	AP2210K-3.3TRG1	U22, U24, U26	300mA, Low Quiescent Current, Fa	SOT95P285X100-5N
	FAN3988	U23	USB/Charger and Over Voltage De	MLP 1.45X1MM
	LM4819M	U25	350mW Audio Power Amplifier wit	
	Con1x6	X2	1 x 6 pins connector	MHDR1X6
	WR-Communication Conne		WR-COM_USB_Micro Type B_Hor	
1	815-ABLS-8-B2	Y1	Surface Mount Quartz Crystal 8Mh	FUC 43/ 4H SINY

Quantity	Comment
1	1uF 62
1	100
1	815-ABLS-8-B2
1	AP2210K-3.3TRG1
1	Batteryconnector t 08940
1	MCP6L04T-E/ST
2	2.7K 4.7uF
2	4.7uF
2	18pF 33
2	33 82
1	200
2	200 ITR9909
2	Motor connector 89400-02
2	Motor connector 89400-02 WP7104SRC/D YLL-T50GRB-3-BI-05
2	YLL-T50GRB-3-BI-05
3	SN74HC595PWR
4	0 1K
4	1K 1.5K
4	1.5K 22K
4	820 820
	2508056017/2
4	DMG1012UW
4	DMG1012UW DMG1013UW-7
5	10 F
7	4.7nF
8	
8	10K
8	39 56
9	27 24 CUDC (CC20 AC
10	27-21SURC/S530-A3 100K
14	4.7K BC817-40
17	100nF
1	1.5nF
1	6.8K
1	10uF X5R
1	47K
1	270K
1	680K 820
- 1	2508056017Y2
	AP2112K-3.3TRG1
1	Con1x6
1	FAN 3988
1	IRM-3638T
1	LM4819M
	MCP6L04T-E/ST
	MCP73871-2CAI/ML
1	MicroSD-Astron 5190008- NCP15XH103F03RC
	PIC24FJ128GB106-I/PT
1	Speaker
- 1	STM.LIS2DF12.IGA12
i	SW-PB
1	TD4015BPN WR-Communication Conf
1	WR-Communication Conn
2	0
2	1nF
2	1uF 5.6K
2	E1eE
2	82 82
2	180
2	200
2	AP2210K-3.3TRG1 BAT54S
2	BA154S
2	SN74HC595PWR
2	SN74HC595PWR YLL-T50GRB-3-BI05
2 2 3	SN74HC595PMR YLL-T50GRB-3-BI-05 1.5K
2 2 3 3	SN74HC595PWR YLL-T50GRB-3-BI05 1.5K 10uF
2 2 3 3 3	SN74HC595PWR YLL-T50GRB-3-BI05 1.5K 10uF
2 2 3 3 3 3 3	SN74HC595PMR YLL-T50GRB-3-BI05 1.5K 10.F 27-21/BHC-ANIP2/3C 27-21/SHC/S530-A3
2 2 3 3 3 3 3 3 3	SN74HC595PMR YLL-T50GRB-3-BI-05 1.5K 10.F 27-21/BHC-ANIP2/3C 27-21SURC/SS30-A3 476F
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SN74HC595PMR YIL-T50GRB-3-BH06 1.5K 1.0F 27-21/BHC-AN1P2/3C 27-21SURC/SS30-AS 47rF 100
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SN7.4HC595PMR YLL-T50GRB-3-BH05 1.5K 10.F 27-21/BHC-AN1P2/3C 27-21/SHC-SS30-AS 47rF 100 APTD16080G0K
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SN74HC595PMR YLL-T50GRB-3-BI/05 1.9K 10.F 27-21/BHC-AN1P2/3C 27-21/BHC-AN1P2/3C 47/F 100 APTD1608CGCX 19-21SURC/SS30-A3/IR8
2 2 3 3 3 3 3 3 3 3 4 4 5 6	SN74HCS95PAR YLL-T50GRB-3-BI/05 1.5K 10.F 27-21/BHC-AN192/3C 27-21SURC/SS30-A8 47+F 100 APTD1608/GGX 10-21SURC/SS30-A8/IRB 100K
2 2 2 3 3 3 3 3 3 3 3 4 4 5 5 6 6 6 6	SN74HC595PAR YLL-T50GRB-3-BH05 1.5K 1.0F 27-21/BHC-ANIE23C 27-21/SHC-ANIE23C 47+F 100 APTD 1608CG3X 19-21/SURC/S530-AS/IR8 100K 1K 4.7K
2 2 2 3 3 3 3 3 3 3 3 4 5 5 6 6 6 6 6 6 6	SN74HC595PAR YLL-T50GRB-3-BH05 1.5K 1.0F 27-21/BHC-ANIE23C 27-21/SHC-ANIE23C 47+F 100 APTD 1608CG3X 19-21/SURC/S530-AS/IR8 100K 1K 4.7K
2 2 2 3 3 3 3 3 3 3 3 3 4 4 5 5 6 6 6 6 6 6 6 6 6 6	SN74HC599FWR YLLT50GRB-3-BIG 1.9K 1.9K 27-21SURC/SS0-AR 4.7F 100 APTD1608CGX 19-21SURC/SS30-AR/TIR 100K 1K 4.7K 6.2 2ZK
2 2 2 2 3 3 3 3 3 3 3 3 3 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	SN74HC595PAR YLL-T50GRB-3-BH05 1.5K 1.0F 27-21/BHC-ANIE23C 27-21/SHC-ANIE23C 47+F 100 APTD 1608CG3X 19-21/SURC/S530-AS/IR8 100K 1K 4.7K

Distance
Designator C63
C63 R38
RIOS YI
T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BTI
U4
R4, R6 C43, C72
C43,C/2 C41,C42
R3, R5
R70,R73
R68, R71 U2, U3
02,05
D19, D20
02,06
U13. U15. U17  U13. U15. U17  U13. U15. U17
R160, R161, R168, R169 R21, R22, R23, R24
D17 D10 D10 D20
R17, R10, R17, R10 R151, R152, R153, R154
RIS1, RIS2, RIS3, RIS4
T5 T6 T7 T8
T1, T2, T3, T4
C40, C51, C52, C73, C78 C15, C16, C17, C18, C19, C20, C21
C15, C16, C17, C18, C19, C20, C21 R12, R13, R14, R15, R16, R33, R44, R45
R27, R28, R29, R30, R31, R50, R51, R136
R82 R83 R84 R85 R95 R96 R97 R133
869, 872, 874, 875, 876, 877, 890, 891
D9, D10, D11, D12, D17, D18, D25, D26, D85 R119, R120, R121, R122, R123, R124, R155, R156, R157, R158
R1, R2, R57, R59, R61, R63, R64, R65, R111, R112, R113, R114
01, 02, 03, 04, 07, 012, 019, 020, 022, 025, 026, 028, 047, 048
C5, C7, C8, C9, C14, C22, C25, C26, C28, C30, C55, C68, C69, C70, C71, C74, C75
<u>C57</u> R127
C34
R132
R140
R13
15
U18
X2 U23
U23 1330
位置
US .
U21 SI
SI R11
1110
LST .
UI 9
SZ MC1
<del>X</del> 3
R170,R171
C53, C54
C56,C61 R115,R116
C4, C64
C4, C64 R100, R149
R107, R137 R98, R147
1995, R14/ U22, UM
D33, D34
U14,U16
D27, D38
R26, R46, R47 C2, C31, C46
D8. D31. D37
D7. D32. D36
C\$8, C\$9, C60 R106, R135, R150
R106, R135, R130 D28, D29, D30
D1, D3, D4, D5
R138, R139, R141, R143, R159
R25, R48, R49, R108, R166, R167
R92, R93, R94, R144, R145, R146 R36, R37, R39, R40, R54, R55
R11, R42, R43, R67, R130, R142
R66, R86, R87, R88, R89, R134
C32, C44, C45, C47, C48, C49, C50
U6, U7, U8, U9, U10, U11, U12 R101, R102, R109, R110, R117, R118, R128, R129
D13 D14 D15 D16 D21 D22 D23 D24
R32, R34, R35, R41, R52, R53, R103, R104, R126 R56, R58, R60, R62, R78, R79, R80, R81, R99, R148
R56, R58, R60, R62, R78, R79, R80, R81, R99, R148 C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C65, C66, C67
C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C65, C66, C67  G5, G6, G8, G9, O10, C11, C13, C14, C15, C16, C17, C18, C31, C32, C34, C37, C38, C39, C62, C65, C66, C67

ESCTOOS XXVIN ES	Layer Boottom
ESCIOOSONON  CONTACTOR	Bottom Bo
0195/295X00-94 ATC-25TAL 9 ATC	Sottom Top Top Top Top Top Top Top
0195/295X00-94 ATC-25TAL 9 ATC	Bottum Bo
AT 2 SSOP_STILLN ESCTOOS/SOWN E	Bottum Bo
ESCIOOS/SIÓN APACIOOS/SIÓN APACIOOS/SIÓN APACIOOS/SIÓN APACIOOS/SIÓN APACIOOS/SIÓN APACIOOS/SIÓN ESCIOOS/SIÓN ESCIOOS/ESCIOOS/SIÓN ESCIOOS/SIÓN ESCIOOS/SIÓN ESCIOOS/SIÓN ESCIOOS/SIÓN ESCI	Bottom Soutem Soutem Bottom Bo
APCT005XENN APCT005XENN ESCT005SDBN ESCT005XDN ESCT005X	Bottom Soutem Soutem Bottom Bo
ESCIOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON EDCTITES JAMA, ZOMM BIBLO-19E-REB BIBLO-	Bottom Top
ESCIOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON ESCITOOS/DON EDCTITES JAMA, ZOMM BIBLO-19E-REB BIBLO-	Bottom Top
ED. TH. 3 MAI, 20MM BUE 1978-REB  1887-01, N ESCTIODS XNN	Bottum Top
ED. TH. 3 MAI, 20MM BUE 1978-REB  1887-01, N ESCTIODS XNN	Bottom Top Top Top Top Top Top Top
ED. TH. 3 MAI, 20MM BUE 1978-REB  1887-01, N ESCTIODS XNN	Bottum Bo
ED. TH. 3 MAI, 20MM BUE 1978-REB  1887-01, N ESCTIODS XNN	Bottom Top
48F-01J. V  SECTIODS/SINN  SESTIODS/SINN  SESTIODS/	Bottum Bo
48F-01J. V  SECTIODS/SINN  SESTIODS/SINN  SESTIODS/	Bottom Top
ESCI 005/XDNN ESCI 1005/XDNN ESCI 10	Bottum Fortum Bottum Fortum Fo
ESCTOOS/SWN ESCTOOS/SWN 100/2017 2011 L. 1 100/2017 2011 L. 1	Bottum Top
ESCTOOS/SWN ESCTOOS/SWN 100/2017 2011 L. 1 100/2017 2011 L. 1	Bottum Tug
ESCTOOS/SIDNIN NDCCOT/SZRITL 07165921 OXXDO-SWI 07165921 OXXDO-SWI APCTOOS/SIDNI APCTOOS/SIDNI APCTOOS/SIDNI ESCTOOS/SIDNI ESCTOOS/SIDNIN ESCTOOS/SIDNI ESCT	Bottum Tup
07659210X002-W 07659210X002-W APCT005XEN APCT005XEN APCT005XEN APCT005XEN ESCT005XBN	Bottum Tup
07659210X002-W 07659210X002-W APCT005XEN APCT005XEN APCT005XEN APCT005XEN ESCT005XBN	Bottum Tup
APCTOOSXENN APCTOOSXENN ESCTOOSXENN ESCTOOSXENN ESCTOOSXENN ESCTOOSXENN ESCTOOSXENN ESCTOOSXENN TO ESCTOOSXENN TO ESCTOOSXENN TO ESCTOOSXENN TO ESCTOOSXENN TO ESCTOOSXENN APCTOOSXENN APCTOOSXENN ESCTOOSXENN	Bottum Top
ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION 7-21 EVERLIGHT ESCTOOS/SION	Bottom Top
ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION ESCTOOS/SION 7-21 EVERLIGHT ESCTOOS/SION	Bottom Top
ESCTOOS/SION ESCTOOS/SION 7-21 EVERLIGHT FESCTOOS/SION ESCTOOS/SION	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Bottom Top
ESCTOOS/SION ESCTOOS/SION 7-21 EVERLIGHT FESCTOOS/SION ESCTOOS/SION	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Top
ESCTOOS/NON 7-21 EVERLIGHT ESCTOOS/NON ESCTOOS/NON ESCTOOS/NON OTZ3,N APCTOOS/KEN APCTOOS/KEN APCTOOS/KEN APCTOOS/KEN ESCTOOS/NON ESCTOOS/	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Top
ESC1005/00N 07123,N APC1005/XEN APC1005/XEN APC1005/XEN APC1005/XEN APC1005/XEN ESC1005/X	Bottom Bottom Bottom Top
ESC1005/00N 07123,N APC1005/XEN APC1005/XEN APC1005/XEN APC1005/XEN APC1005/XEN ESC1005/X	Bottom Bottom Top
OT23_N APC1005X/EN APC1005X/EN ESC1005X/EN	Bottom Bottom Top
APC1005X/ESN APC1005X/ESN ESC1005X/ESN ESC1005X/ESN ESC1005X/ESN ESC1005X/DSN ESC1005X/DSN ESC1005X/DSN ESC1005X/DSN ESC1005X/DSN ESC1005X/DSN UNDC2012X/TIL 0795P285X/IOO-SN	Bottom Top
APC1 005X05N ESC1 005X04N ESC1 005X04N ESC1 005X04N ESC1 005X04N NDC2012X11L 0072512X11L HDD11X	Top
APC1 005X05N ESC1 005X04N ESC1 005X04N ESC1 005X04N ESC1 005X04N NDC2012X11L 0072512X11L HDD11X	Top
ESC1 005XXXIN ESC1 005XXXIN ESC1 005XXXIN NDC201 2X11L 0795P285XX100-5N	Top Top Top Top Top Top Top Top
ESC1 005XXXIN ESC1 005XXXIN ESC1 005XXXIN NDC201 2X11L 0795P285XX100-5N	Tap Tap Tap Tap Tap Tap
	Tap Tap Tap Tap Tap Tap
	Tap Tap Tap Tap
	Tap Tap Tap Tap
	Top Top
	Тор
R-receiver	
108A_N	Too
SSOP-ST14_N	Ton
SSOP-ST14_N FN-ML20_N	Тар
ESC1005X04L	Tap Tap
QFP-PT64_N	Тар
IN2	Тор
TM-LGA-12	Тар
SIVENZIH II CRO. TD.4015RMI	Top Top
29105150521	Too
ESC1005XD4N	Too
APC1005X05N	Top
APC1005X05N	Top
ADC1005XUNN ADC100EVIEN	Top Top
ESC1005XD4N	Too
ESC1005X04N	Тар
ESC1005XD4N	Top Top
OT95P285X100-5N	Ton
	Top
BLP679F-RGB	Tap Tap
ESC1005X04N	Top
APC1005X05N	Too
7-21 Everlight Blue	Too
7-21 EVERLIGHT	Tap Tap
ESC1005XDIN	Too
TOC1608X08N	Too
TOC1608008N	Ton
ESC1005X04N	Ton
ESC1005XDMN	Top
ESC1005XD4N ESC1005XD4N	Tap Tap
ESC1005YMN	Too
ESC1005XD4N	Тор
APC1005X05N	Ton
1 R9909_EDGE	Тор
ESCIUUSXDIN	Tap Tap
FSC1005XD4N	Тар
ESC1005X04N	Too
APC1005X05N	Top Top
ECT TO LEGE TO	SSCTORS/SORE  **FEP FIREA, N N2 **P FIREA, N N2 **NH-LGA-12 **MARCAPT **MARC