

A2060 — ARCNET CONTROLLER FOR A2000**DIMENSIONS:** 13.25 x 4.5 inches**WEIGHT:** 1 lb.**ENVIRONMENTAL:** 0C to 70C Operating**POWER REQUIREMENTS:** +5V @ 1.75A max
-5V @ 0.27A max**INCLUDES:**

- A2060 PCB
- BNC "T" connector
- BNC to BNC cable (2 meter)
- 93 ohm network terminator

FEATURES:

- Support of ArcNet bus protocol (uses HIT module)
- Socket for optional network Autoboot ROM
- Novelle network software optionally available

ARCNET HAS THE FOLLOWING FEATURES:

- Allows up to 256 nodes
- Maximum distance of 2000 feet between nodes
- Data rate of 2.5 Mbps

GENERAL DESCRIPTION

The A2060 is an ARCNET controller designed for use with the A2000 computer. ARCNET is a local area network utilizing a self-polling "modified token passing" scheme operating at a 2.5 Mbit data rate. A "modified token passing" scheme is one in which all token passes are acknowledged by the node accepting the token. The token passing network avoids the fluctuating channel access times caused by data collisions in so-called CSMA/CD schemes such as Ethernet.

The A2060 plugs into one of the 100 pin expansion slots in the A2000. The BNC plug on the rear of the A2060 connects to the network in daisy chain fashion with the special "T" connector and BNC to BNC cable included. Note that most network installations will require additional cabling and active links, and that network software is not included.

ENVIRONMENTAL TEST REQUIREMENTS

Units shall comply with the following environmental resistance requirements.

TEMPERATURE

Operational	5 to 55°C
Storage	-20 to +70°C
Gradient	+10°C/hour
Temperature Cycle	-20 to 60° C, 10 cycles, 10 minutes minimum at each extreme, 5 minutes maximum between extremes

HUMIDITY

Operational (relative)	10 to 90% (non-condensing)
Storage (relative)	5 to 95% (non-condensing)

VIBRATION

Non-operating (randomfrequency)	5.2 Gs per MIL-STD 202 Method 214, 15 min. in each of three axes
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SHOCK

Operational	5 Gs to each of 6 axes, two 11 mSec half sinewave shocks
Non-Operational	20 Gs applied as above

ALTITUDE

Operational	0 to 3000 meters
Non-Operational	0 to 15,000 meters

Commodore International Spare Parts List
PCB Components
PCB Assembly #311611-01

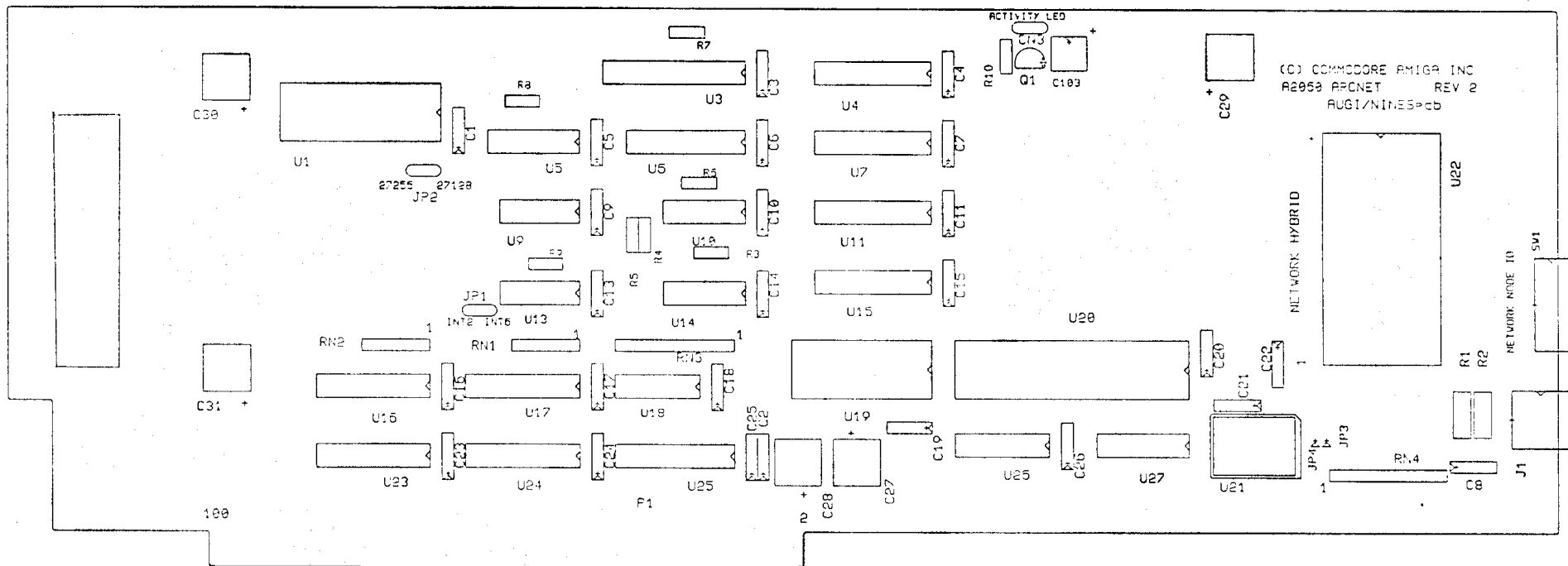
Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries.

IC COMPONENTS			RESISTOR NETWORKS		
390554-01	16L8A PAL CONTROL 1	U6	902441-22	SIP 1K 6 PIN 2%	RN1,RN2
390553-01	20L10A PAL CONTROL 2	U3	902410-10	SIP 1K 10 PIN	RN3
390585-01	27C64-20 EPROM	U1	902410-07	SIP 10K 10 PIN	RN4
901521-13	74LS244	U4,U7,U24,U25	RESISTORS		
901521-29	74LS373	U11,U15	901550-105	CF 33 OHM 1/4W 5%	R3-R9
901521-31	74LS32	U5	901600-51	CF 5.6K 1/2W 5%	R1,R2
901521-34	74LS175	U23	901550-49	100 OHM 1/4W 5%	R10
901521-46	74LS245	U26	900101-51	2.2 UF ELEC RAD	C103
901521-71	74LS166	U17	CAPACITORS		
318041-01	74F521	U9,U10	390082-04	CERM RAD .33UF 50 V	C1-C26
390081-01	74F74	U14	900101-17	ELEC AXL 22 UF 35 V	C28-C31
390198-01	74F86	U13	390101-09	2.2UF ELEC. RAD	C103
390586-01	74F38	U20	CONNECTOR		
390575-01	LSI LAN COM90C26	U27	390673-01	CONNECTOR INSULATED BNC	J1
390576-01	LSI LAN TRANSCEIVER COM92C3	U22	MISCELLANEOUS		
390577-01	HYB9068 HIT HYBRID MODULE	U19	390363-02	SWITCH 8 POSITION DIP R/A	SW1
251637-03	MEM SPRAM 2K X 8 BIT 120NS	U16	311665-01	OPTION CARD BRACKET	O1 CN3
901521-43	74LS374	U21	906900-07	SCREW M3 X .5 X 4 (QTY 2) FOR OPTION CARD BRACKET	
325566-21	OSCILLATOR 20MHZ 50MA		902707-01	TRANSISTOR 2N3906	
SOCKETS			903326-03	HEADER, 3 PIN SIL	
390060-01	DIP 24 PIN .3"	U3	316893-01	LABEL, FCC ID	
904150-02	IC L/P 16 PIN .3"	U27			
904150-04	IC L/P 24 PIN .6"	U19			
904150-05	IC L/P 28 PIN .6"	U1			
904150-06	IC L/P 40 PIN .6"	U20			
904150-08	IC L/P 20 PIN .3"	U6			

Commodore International Spare Parts List
SHIPPING ASSEMBLIES

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532060-01	A2060 SHIPPING ASSY (U.S.)	532060-04	A2060 SHIPPING ASSY (GERMANY)
363035-05	BOX BULK PACKING	363035-05	BOX BULK PACKING
363097-05	BOX PACKING	363097-05	BOX PACKING
318928-01	BAG PLASTIC CONDUCTIVE	318928-01	BAG PLASTIC CONDUCTIVE
363350-01	MANUAL USER A2060 (EFIGS)	363350-01	MANUAL USER A2060 (EFIGS)
318290-01	CARD WARRANTY U.S.	316846-01	LABEL UPC A2060
314877-04	SERVICE CENTER LIST (U.S.)	390627-01	CONNECTOR BNC "T"
316846-01	LABEL UPC A2060	390628-01	TERMINATOR BNC 93 OHMS
390627-01	CONNECTOR BNC "T"	312839-01	CABLE BNC 2 M LG.
390628-01	TERMINATOR BNC 93 OHMS	311661-01	PCB ASSY A2060, REV. 2
312839-01	CABLE BNC 2 M LG.	251006-01	BAG PLASTIC
311661-01	PCB ASSY A2060, REV. 2	532060-05 A2060 SHIPPING ASSY (EUROPE)	
251006-01	BAG PLASTIC	363035-05	BOX BULK PACKING
532060-02 A2060 SHIPPING ASSY (CANADA)		363097-05	BOX PACKING
363035-05	BOX BULK PACKING	318928-01	BAG PLASTIC CONDUCTIVE
363097-05	BOX PACKING	363350-01	MANUAL USER A2060 (EFIGS)
318928-01	BAG PLASTIC CONDUCTIVE	316846-01	LABEL UPC A2060
363350-01	MANUAL USER A2060 (EFIGS)	390627-01	CONNECTOR BNC "T"
318882-01	CARD WARRANTY CANADA	390628-01	TERMINATOR BNC 93 OHMS
316846-01	LABEL UPC A2060	312839-01	CABLE BNC 2 M LG.
390627-01	CONNECTOR BNC "T"	311661-01	PCB ASSY A2060, REV. 2
390628-01	TERMINATOR BNC 93 OHMS	251006-01	BAG PLASTIC
312839-01	CABLE BNC 2 M LG.	532060-06 A2060 SHIPPING ASSY (SCANDINAVIAN)	
311661-01	PCB ASSY A2060, REV. 2	363035-05	BOX BULK PACKING
251006-01	BAG PLASTIC	363097-05	BOX PACKING
532060-03 A2060 SHIPPING ASSY (AUSTRALIA)		318928-01	BAG PLASTIC CONDUCTIVE
363035-05	BOX BULK PACKING	363351-01	MANUAL USER A2060 (SCAND)
363097-05	BOX PACKING	316846-01	LABEL UPC A2060
318928-01	BAG PLASTIC CONDUCTIVE	390627-01	CONNECTOR BNC "T"
363350-01	MANUAL USER A2060 (EFIGS)	390628-01	TERMINATOR BNC 93 OHMS
318884-01	CARD WARRANTY AUSTRALIA	312839-01	CABLE BNC 2 M LG.
316846-01	LABEL UPC A2060	311661-01	PCB ASSY A2060, REV. 2
390627-01	CONNECTOR BNC "T"	251006-01	BAG PLASTIC
390628-01	TERMINATOR BNC 93 OHMS		
312839-01	CABLE BNC 2 M LG.		
311661-01	PCB ASSY A2060, REV. 2		
251006-01	BAG PLASTIC		



PCB BOARD LAYOUT #311661, REV. 2

