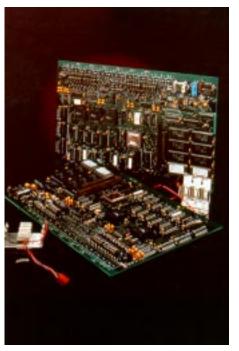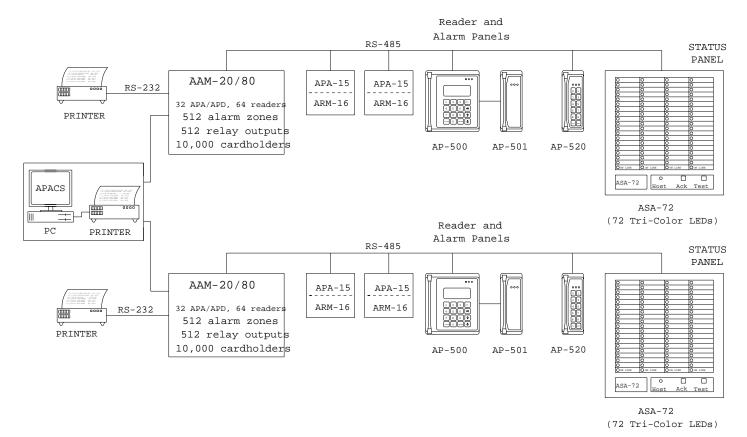# AAM-20/AAM-80
Access and Alarm OEM Multiplexer

The AAM-20 and AAM-80 multiplexers provide full distributed processing of access control, alarm reporting, and remote control for the largest of system applications. Many AAM multiplexers can be connected in a system whose size is limited only by the OEM host software or network.

AAM-20/80 Common Features:

- Downloaded database for up to 250,000 cardholders (10,000 standard).
- Stores up to 65,000 events
- Elevator control/Local printout
- Anti-passback/Alarm masking
- Dual path reporting to the host
- Grade AA communication to the host
- RS-232 and RS-485 communications
- Remote dial-up capability
- 192 K high-speed memory expandable to 4 MB
- Battery back-up of database and events
- Status LEDs for operation and diagnostics
- Simple installation using plug-in screw terminals
- Unique address - multiple AAM's can be connected to a single host.

AAM-20 Unique Features:

- 3 serial ports (up to 9600 baud)
- Up to 16 card readers
- Up to 20 alarm panels (320 inputs)
- Up to 20 relay modules (320 relay outputs)
- Up to 4 status panels (288 status points)

AAM-80 Unique Features:

- 6 serial ports (up to 9600 baud)
- Up to 64 card readers
- Up to 32 alarm panels (512 inputs)
- Up to 32 relay modules (512 relay outputs)
- Up to 4 status panels (288 status points)

OPERATION

The AAM-20/80 communicates directly with APOLLO intelligent magnetic stripe card readers, AP-500, 510, 520, 511, 521 and with other reader technologies such as proximity, barcode, and infrared via the AIM-4 or API interface modules. It also communicates with APOLLO alarm panels, APA-15 (15 grade A supervised inputs), APD-16 (16 grade AA), APA-16 (Grade B), their corresponding ARM-16 relay output modules, and with ASA-72 alarm status panels.

All access decisions are made in the AAM-20/80 using a high speed 32-bit microprocessor. Memory allocation is segmented, such that memory not reserved for cardholders can be used for event storage should communication with the host fail. Events are time-stamped when they actually occur to preserve valid event logging when communications are re-established.

ORDERING INFORMATION

Model Number	Part Number	Description
AAM-20	430-010	Alarm/Access Multiplexer, 3 port, 20 devices
AAM-80	430-020	Alarm/Access Multiplexer, 6 port, 80 devices
ASE-05	420-200	Enclosure with lock, tamper switch, and regulated power supply: 115VAC in, 5VDC 3A out. Dimensions: 16"H x 16"W x 5"D (41 x 41 x 13 cm)
AAX-02	430-200	Memory expansion module, 256 Kbytes (up to 20,000 cardholders)
AAX-05	430-201	Memory expansion module, 500 Kbytes (up to 50,000 cardholders)
AAX-10	430-202	Memory expansion module, 1 Mbyte (up to 90,000 cardholders)
AAX-20	430-203	Memory expansion module, 2 Mbyte (up to 180,000 cardholders)
APU-05	460-130	Uninterruptible power supply/battery charger. Mounted in 16 x 16 x 15 enclosure with lock and tamper switch. AAM-20/80 can be mounted inside.
ABT-24	460-160	12 Ah battery pack for APU-05
ABE-20	460-170	Enclosure with lock, tamper switch, and 2 battery trays for ABT-24
ATM-48	470-030	Terminator for RS-485 (2 per line required)

SPECIFICATIONS

Dimensions:	12"L x 7.5"W x 1"H (30.4 x 19 x 2.5 cm)
Weight:	1.2 lb (0.54kg)
Operating Temperature Range:	32 to 122° F (0 to 50° C)
Humidity Range:	0 to 95%, non-condensing
Power Requirements:	5 Vdc @ 1A (0.75A for AAM-20)

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Note: Information contained in this document is subject to change without notice

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