

ACM-000-000-000-000-00-00-00 50080121-001

Ascent Control Module

Alerton ACM-000-000-000-000-00-00-00 50080121-001 is an Ascent Control Module. The ACM is a BACnet Building Controller and Niagara Framework platform that combines multi-controller execution, Ethernet connectivity and field-bus expansion in one controller.

IDENTITY	VERIFIED VALUE
Manufacturer	Alerton
Complete model	ACM-000-000-000-000-00-00-00 50080121-001
Product role	Ascent Control Module
System family	Alerton Ascent

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	ACM-000-000-000-000-00-00-00 50080121-001	Clock	Real-time clock
Product type	Ascent Control Module	BACnet networking	BACnet IPv4 and IPv6
BACnet profile	BACnet Building Controller (B-BC)	BBMD capacity	Up to 4 BBMDs
Software platform	Niagara Framework	Modbus support	Modbus TCP and Modbus RTU
Controller instances	Up to 6 global controller instances	Modbus device capacity	Up to 384 devices
MS/TP LANs	Up to 6 EIA-485 MS/TP LANs	TUX support	Up to 4 trunks
Ethernet ports	2 x 10/100/1000 Ethernet	Expansion cards	Up to 2 option cards
Processor	Quad-core ARM Cortex-A9	Mounting	35 mm DIN rail
System memory	1 GB DDR3, 533 MHz / 1066 MT/s	Certifications	RoHS, CE, FCC Class B, ICES-003, C-Tick, UL 916 and BTL
Storage	Removable microSD		

Engineering boundary

Retain the complete ACM marking and item identity. Confirm the installed option cards, network addressing, controller instances, MS/TP trunks, licenses and Compass or Niagara project before replacement or recommissioning.

Related Products

MODEL	APTER POWER PAGE
Honeywell TK-IAH161	View Honeywell TK-IAH161
Honeywell TK-OAV081	View Honeywell TK-OAV081
Honeywell CC-TPIX11 51306544-175	View Honeywell CC-TPIX11 51306544-175
Honeywell SPS5785 51198651-100	View Honeywell SPS5785 51198651-100
Honeywell TK-FPDXX2	View Honeywell TK-FPDXX2
Honeywell TK-FXX102	View Honeywell TK-FXX102

Functions and Applications

Multi-controller execution

Runs as many as six global controller instances on the ACM platform.

High-speed Ethernet

Provides two 10/100/1000 Ethernet interfaces for BACnet/IP and supervisory networking.

Flexible field integration

Supports MS/TP, Modbus TCP, Modbus RTU and TUX expansion through the documented architecture.

Expandable hardware

Accepts up to two option cards for the approved installation configuration.

Common Applications

APPLICATION	ENGINEERING CONTEXT
Building automation supervision	Coordinates BACnet control, alarming, scheduling and network integration in an Alerton system.
BACnet/IP integration	Connects approved building controllers and supervisory devices through Ethernet and IPv4 or IPv6.
MS/TP field networks	Supervises documented BACnet MS/TP trunks through the installed EIA-485 interfaces.
Legacy and Modbus integration	Integrates approved Modbus and TUX devices within the configured ACM project.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete Alerton ACM marking and 50080121-001 item identity before work.
2	Place the controlled building systems and networks in the approved maintenance state.
3	Back up the Compass or Niagara project, licenses, users, schedules and network settings.
4	Record both Ethernet port assignments, IP settings and BACnet device identities.
5	Record every MS/TP, Modbus and TUX trunk before disconnecting field wiring.
6	Use ESD controls and preserve the microSD and installed option-card arrangement.
7	Do not substitute a different ACM or option-card configuration without documented compatibility review.
8	Verify communications, alarms, schedules, trends and controlled functions before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Alerton ACM-000-000-000-000-00-00-00 50080121-001?	It is an Alerton Ascent Control Module that combines a BACnet Building Controller profile with the Niagara Framework platform.
How many controller instances can Alerton ACM-000-000-000-000-00-00-00 50080121-001 run?	The official ACM data sheet lists up to six global controller instances.
How many Ethernet ports does Alerton ACM-000-000-000-000-00-00-00 50080121-001 provide?	It provides two 10/100/1000 Ethernet ports.
Which BACnet network versions does Alerton ACM-000-000-000-000-00-00-00 50080121-001 support?	The ACM supports BACnet over IPv4 and IPv6.

Model-Specific FAQ - Part 2

QUESTION	ANSWER
How many MS/TP LANs can Alerton ACM-000-000-000-000-00-00-00 50080121-001 support?	The documented platform supports up to six EIA-485 MS/TP LANs.
Which Modbus interfaces are listed for Alerton ACM-000-000-000-000-00-00-00 50080121-001?	The official data sheet lists Modbus TCP and Modbus RTU support.
What should be backed up before replacing Alerton ACM-000-000-000-000-00-00-00 50080121-001?	Back up the project, licenses, users, addresses, schedules, trends and every configured network or trunk.
What confirms Alerton ACM-000-000-000-000-00-00-00 50080121-001 commissioning?	All configured networks, devices, alarms, schedules, trends and controlled building functions must pass the approved acceptance checks.

Related Products and Release

MODEL	APTER POWER PAGE
Honeywell CC-PAON01 51410070-175	View Honeywell CC-PAON01 51410070-175
Honeywell MC-PLAM02 51304362-150	View Honeywell MC-PLAM02 51304362-150
Honeywell MC-TDOR62 51309150-275	View Honeywell MC-TDOR62 51309150-275
Honeywell CC-PUIO31 51454220-176	View Honeywell CC-PUIO31 51454220-176

MANUFACTURER SOURCE RECORDS

1. Alerton Ascent Control Module Data Sheet, LT-ACM Rev. 06.2 0721
2. Alerton official ACM product record and BACnet controller specifications

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