

Installation Identity and Scope

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	ACM-000-000-000-000-00-00-00 50080121-001
Manufacturer	Alerton
Hardware role	Ascent Control Module
System family	Alerton Ascent

Controlled engineering copy

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.

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

Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete ACM-000-000-000-000-00-00-00 50080121-001 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
BACnet profile	BACnet Building Controller (B-BC)
Software platform	Niagara Framework
Controller instances	Up to 6 global controller instances
MS/TP LANs	Up to 6 EIA-485 MS/TP LANs
Ethernet ports	2 x 10/100/1000 Ethernet
Processor	Quad-core ARM Cortex-A9
System memory	1 GB DDR3, 533 MHz / 1066 MT/s
Storage	Removable microSD

Configuration 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.

Expected Technical Values

PARAMETER	VALUE
Clock	Real-time clock
BACnet networking	BACnet IPv4 and IPv6
BBMD capacity	Up to 4 BBMDs
Modbus support	Modbus TCP and Modbus RTU

Additional Official Data

PARAMETER	VALUE
Modbus device capacity	Up to 384 devices
TUX support	Up to 4 trunks
Expansion cards	Up to 2 option cards
Mounting	35 mm DIN rail
Certifications	RoHS, CE, FCC Class B, ICES-003, C-Tick, UL 916 and BTL

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete ACM-000-000-000-000-00-00-00 50080121-001 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING 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.
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.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Honeywell 51401469-100	View Honeywell 51401469-100
Foxboro P0902BP	View Foxboro P0902BP
Foxboro DM900WT	View Foxboro DM900WT
Foxboro P0972AJ FBI10E	View Foxboro P0972AJ FBI10E
Foxboro P0922YU FPS400-24	View Foxboro P0922YU FPS400-24
Foxboro FBM201 P0916AA	View Foxboro FBM201 P0916AA

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	ACM-000-000-000-000-00-00-00 50080121-001 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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