HIMA F8650E

H51q Safety Central Module

Safety-related central processing for the H51q-MS, H51q-HS and H51q-HRS configurations. Processor work affects the application and the system response, not just one field channel.

Validated H51q application → **F8650E central processing** → **Assigned I/O and safety function**

Identity and capability

System application	H51q-MS / H51q-HS / H51q-HRS
Catalogue safety designation	SIL 3 system variants
Processor designation	1002D
Buffer battery	CR2477N
Battery item number	44 0000018

Integration and service

Battery maintenance interval	At latest after 6 years; within 3 months of BATI indication
Battery access	Central module removal required
Redundant insertion	Operating-system version must match the installed central module
Diagnostic access	Central display buttons or the ELOP II OLT window
Lifecycle alternative	F8650X; function and pin compatibility recorded

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Engineering distinctions

Processor vs I/O problem

A central-module intervention can affect multiple I/O racks. Establish the H51q system state before treating a field symptom as a processor failure.

Battery service vs live availability

Removing the central module is part of battery access. A single-channel system shuts down; a redundant system response depends on its validated configuration.

Replacement vs migration

The F8650X lifecycle entry does not replace a revision and configuration review. Keep the old hardware identity, operating-system revision and project together.

RUN vs functional acceptance

RUN is a necessary operating state, but the associated safety function still needs its approved functional verification before release.

Required integration outcomes

Subject	Required outcome
Station and rate	Recorded values agree with the restored switches
OS revision	Paired central modules carry the same operating-system version
Battery state	Battery identity, polarity and service date are recorded
Processor start	Loaded program and fault-free system reach the intended RUN state
Application response	Approved test demonstrates the intended safety response

Use the approved site procedure for trip thresholds, hazardous-area approval and permission to work. This dossier does not assign plant-specific limits.

Applied engineering case

A battery-maintenance job can become a controller-availability event because access requires central-module removal. Plan the battery task together with the approved processor outage, retained program and version-matching check; replacing a battery is not evidence that the safety application has been restored.

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Technical reference record

H41q/H51q System Catalogue, HI 800 263 E

PDF pp. 35, 45-47, 51; central-module replacement, startup, battery and model listing

List of discontinued products, Rev. 18

PDF p. 6; F8650E/F8650X lifecycle relationship

Companion reading

The preserved manufacturer excerpt supplies the original technical listing and system context. The separate installation guide covers the ordered work sequence, commissioning evidence and fault checks.

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

HIMA F8650X | View HIMA F8650X page

HIMA F7131 | View HIMA F7131 page

HIMA F7126 | View HIMA F7126 page

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

Send the exact model, quantity and requested condition for a quotation.

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