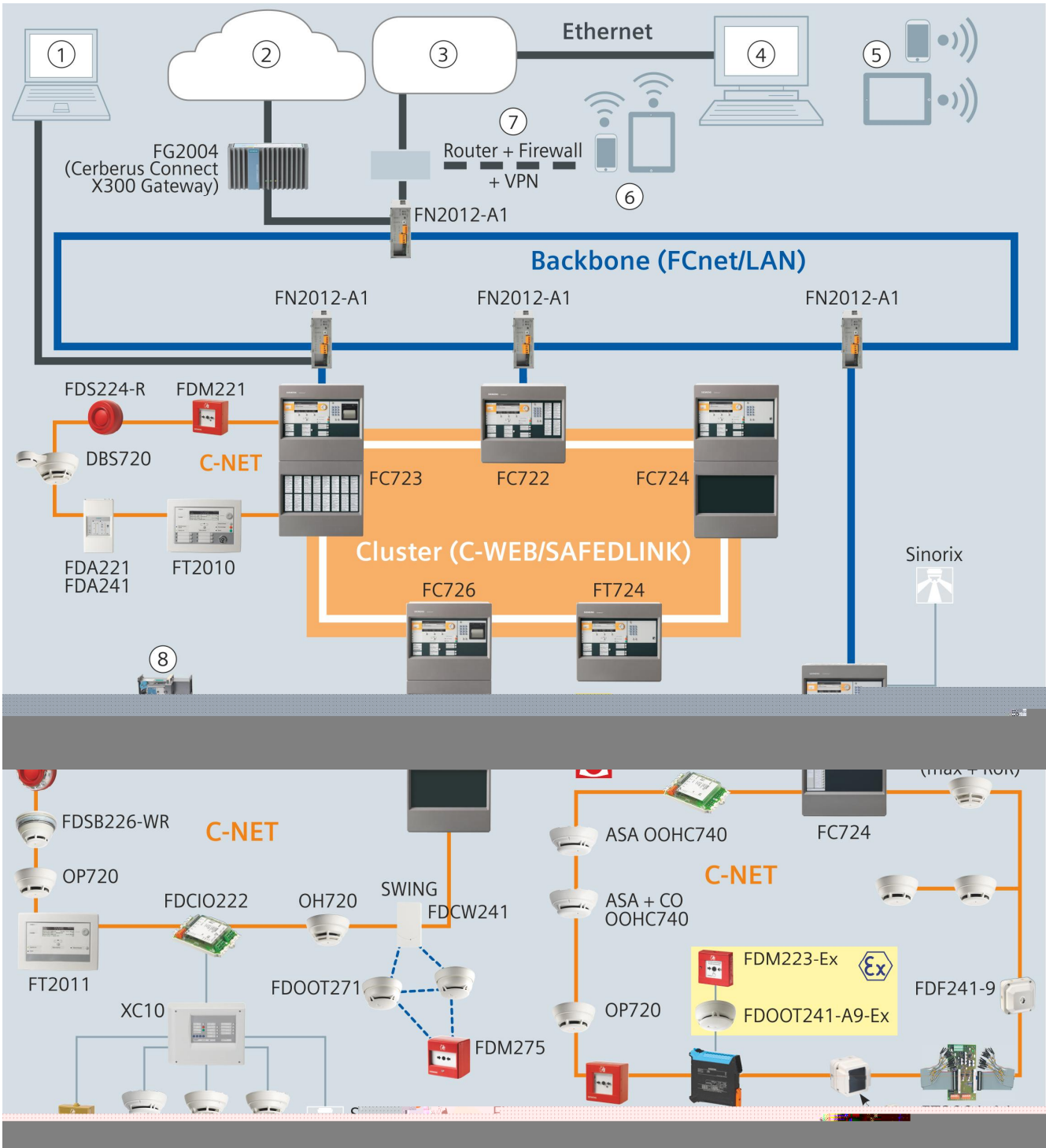




System overview



The diagrams have been simplified and do not include additional network hardware or security components. Permissible applications are described in the A6V101039439 Network Security Guidelines document. Contact your Siemens IT security expert for more information.



System overview





### Optimum use of customer resources

- Individual control panels or an entire network can be operated from a customer PC using the 'Cerberus-Remote' visualization software
- Redundancy cabling replaced by fail-safe network nodes
- Floor repeater display and terminals operated on the C-NET detector line

### High availability

- Remote access via GAP or cloud
- Efficient troubleshooting thanks to remote transmission of diagnosis data
- Maximum reliability and secure detection
- Auto-configuration for primary site protection

### Easy handling

- Easy and time-saving operation thanks to user-friendly and self-explanatory menu structure
- Efficient mounting, commissioning, and configuration thanks to pre-assembled control panels
- All system devices can be accessed remotely via a network device
- Download of the topology, consisting of periphery and installation, in the Engineering Tool
- Minimal training overheads thanks to an integrated operating and hardware concept and the 'Cerberus-Engineering-Tool' Engineering Tool for the entire system

### High speed

- Data transmission rate of 315 kbit/s in fail-safe sub-net and 100 Mbit/s in a backbone Ethernet network
- Short download and upload times
- Logical configuration data created prior to site installation

## General functional principle

---

The FD720 fire detectors identify fire phenomena, compare and evaluate them on the basis of stored patterns, and then transmit a signal to the fire control panel if they detect a fire. The fire control panel evaluates these signals and triggers individually configured fire controls, evac. controls, and, if available, integrated extinguishing controls.

In the event of faults, degraded mode safeguards the operation of those parts of the system that are detrimentally affected by the fault. All signals transmitted to the fire control panel or sent by the fire control panel are automatically displayed on the Person Machine Interface of the fire control panel according to where they originate and can be dealt with by means of operating functions.

The fire control panel saves all messages in the event memory together with a time stamp so that the source of the fire can be determined at a later point.

## System Applications

FS720 is a modular, networkable fire detection system for detection, evaluation, and sounding an alarm in the event of a fire.

Due to its high flexibility and interconnectivity, the application spectrum of the FS720 fire detection system ranges from small hotels, restaurants, and workshops to extremely large applications with special requirements for availability and redundancy, such as airports, shopping malls, and large industrial plants.

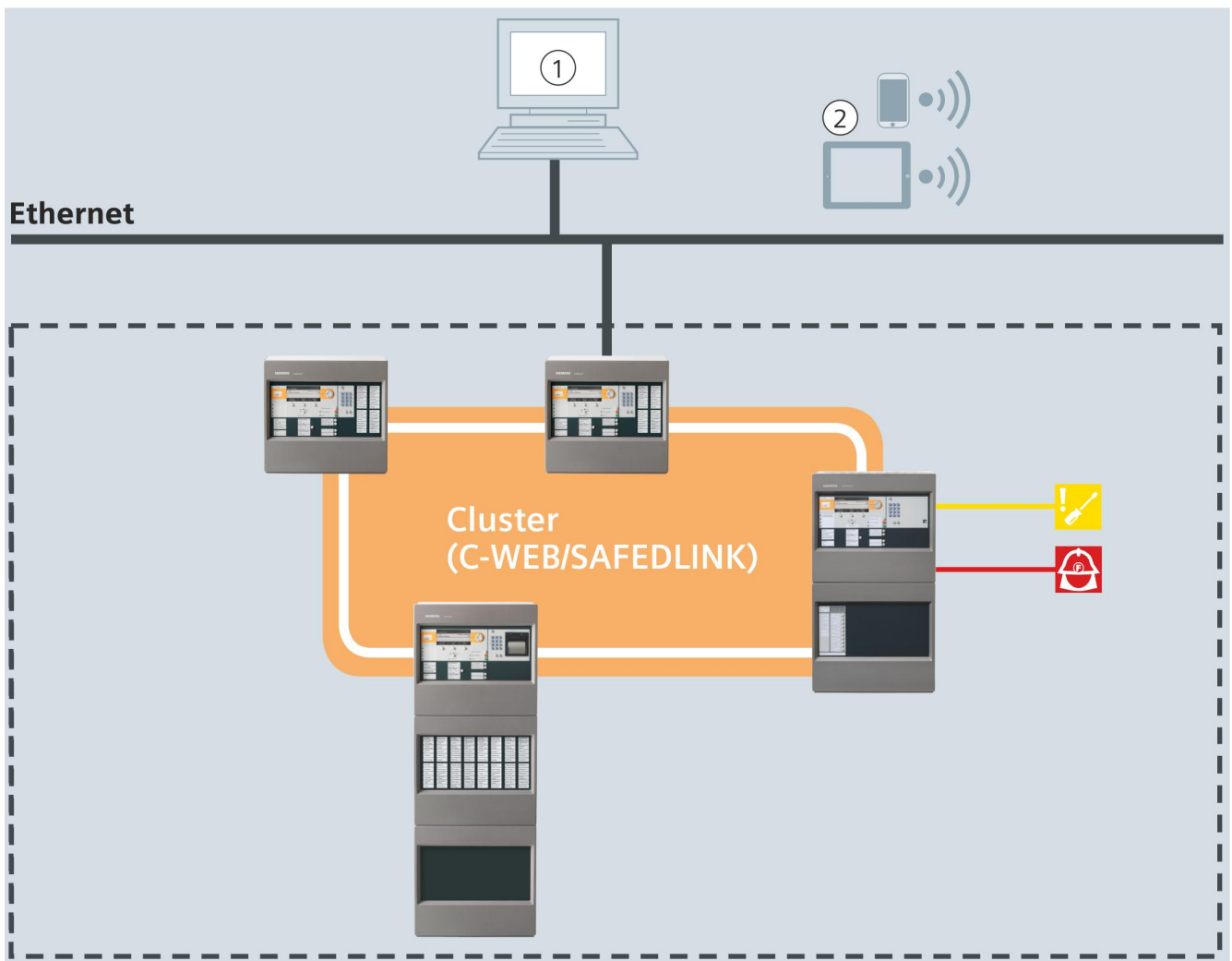
The option to seamlessly integrate an automated extinguishing system into the fire detection system completes the application spectrum.

Networking of fire control panels



The diagrams have been simplified and do not include additional network hardware or security components. Permissible applications are described in the A6V101039439 Network Security Guidelines document. Contact your Siemens IT security expert for more information.

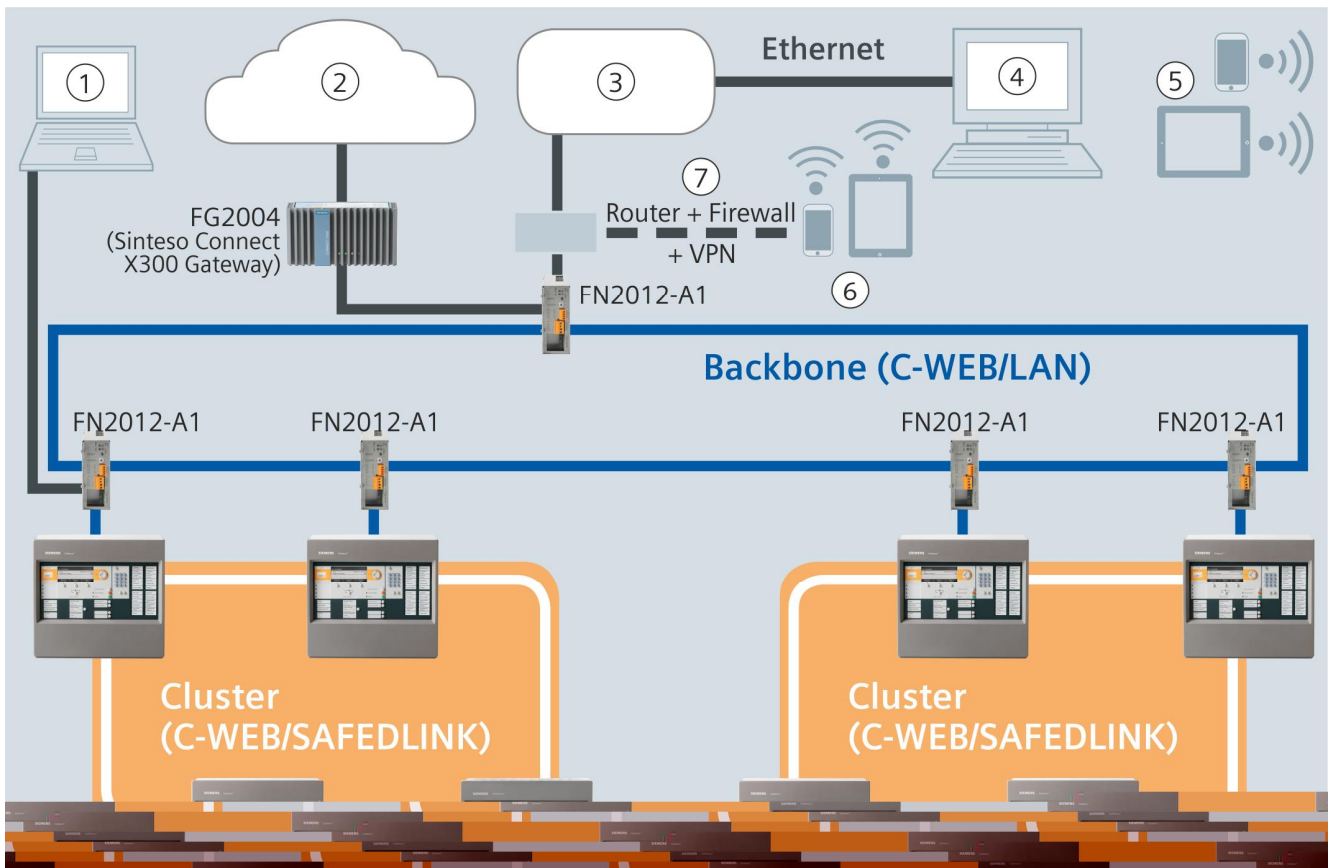
Up to 32 control panels and terminals can be linked to form one C-WEB network. If the C-WEB network is connected to a danger management system via BACnet, up to 16 control panels and terminals can be networked.



Sub-net

1	Management platform
2	Remote access to management platform
	Transmission of a fault signal
	Transmission of an alarm signal

An optical C-WEB/LAN network allows up to 14 sub-nets with up to 16 stations to be operated in one network. A maximum of 64 stations is supported in total.



*Backbone*

1	Remote access with Cerberus-Remote
2	FS cloud applications
3	Customer network
4	Management platform
5	Remote access to management platform
6	Remote access with Cerberus Mobile
7	Router + firewall + virtual private network
	Transmission of a fault signal
	Transmission of an alarm signal

You will find a detailed labeled version of the diagram above along with further information in the A6V10332842 planning guide, see chapter 'Product documentation'.


**Cross-station features and functions**

- Fast Ethernet interface for a heterogeneous network
- Processes signals from Cerberus PRO as well as from earlier detector series
- Siemens danger management system can be connected
- Slots for RS232 and RS485 serial interfaces
- Floor repeater devices, alarm devices, and mimic displays on the C-NET detector line
- All detector lines are monitored for ground faults.
- Integrated degraded mode function
- Freely configurable, time-dependent controls with optional weekly switching programs
- Time and situation-dependent changeover of detector parameter sets
- Controls for synchronous activation of sounders / sounder bases with signal sound, flash, and voice output
- The control panel and the fire detection system are custom-configured using the 'Cerberus-Engineering-Tool' software
- Firmware for all processor-controlled control panel components can be updated
- Customer texts can be adapted directly on the operating unit of the control panel or with the 'Cerberus-Engineering-Tool' software
- Up to 13000 events can be called up from the event memory and filtered based on various criteria
- Automatic summer/normal time changeover


**FC722**





You will find information on the integrated extinguishing system and the individual extinguishing components that are available in a separate data sheet with the document ID 'A6V10880701'.

FC722-ZZ	Housing (Standard)
	<p>Detector line (C-NET)</p> <ul style="list-style-type: none"> <li>• 252 addresses</li> <li>• 2 loops/4 stubs</li> </ul> <p>Properties</p> <ul style="list-style-type: none"> <li>• Operating unit</li> <li>• 70 W power supply</li> <li>• Max. battery capacity 12 Ah</li> </ul> <p>Options of the operating unit</p> <ul style="list-style-type: none"> <li>• Event printer FTO2001-A1</li> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> </ul>




FC722-YZ	Housing (Standard)
	<p>Detector line (C-NET)</p> <ul style="list-style-type: none"> <li>• 252 addresses</li> <li>• 2 loops/4 stubs</li> </ul> <p>Properties</p> <ul style="list-style-type: none"> <li>• Operating unit (+LED indicator)</li> <li>• 70 W power supply</li> <li>• Max. battery capacity 12 Ah</li> </ul> <p>Options of the operating unit</p> <ul style="list-style-type: none"> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> </ul>

FC722-ZA	Housing (Comfort)
	<p>Detector line (C-NET)</p> <ul style="list-style-type: none"> <li>• 252 addresses</li> <li>• 2 loops/4 stubs</li> </ul> <p>Properties</p> <ul style="list-style-type: none"> <li>• Operating unit</li> <li>• Operating add-on (empty)</li> <li>• 150 W power supply</li> <li>• Max. battery capacity 25 Ah</li> <li>• 1 flooding zone (optional)</li> </ul> <p>Options of the operating unit</p> <ul style="list-style-type: none"> <li>• Event printer FTO2001-A1</li> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> <li>• Operating add-on (2xLED indicator) FCM7213-Y3</li> <li>• Operating add-on (4xLED indicator) FCM7214-Y3</li> <li>• Exting. terminal (1 sector) XCM2002-A2</li> <li>• Exting. terminal (4 sectors) XCM2003-A2</li> </ul>

FC722-ZE	Housing (Comfort)
	<p>Detector line (C-NET)</p> <ul style="list-style-type: none"> <li>• 252 addresses</li> <li>• 2 loops/4 stubs</li> </ul> <p>Properties</p> <ul style="list-style-type: none"> <li>• Operating unit</li> <li>• Operating add-on (2xLED indicator)</li> <li>• 150 W power supply</li> <li>• Max. battery capacity 25 Ah</li> </ul> <p>Options of the operating unit</p> <ul style="list-style-type: none"> <li>• Event printer FTO2001-A1</li> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> </ul>


## FC723


FC723-ZA	Housing (Comfort)
	<p>C-NET detector line:</p> <ul style="list-style-type: none"><li>• 756 addresses</li><li>• 2 loops/4 stubs</li><li>• Can be extended with 2 module bus cards</li></ul> <p>Installable module bus cards (option):</p> <ul style="list-style-type: none"><li>• Line card (FDnet/C-NET) FCL2001-A1</li><li>• Line card (SynoLOOP) FCL7201-Z3</li><li>• I/O card (programmable) FCI2008-A1</li><li>• I/O card (horn/monitored) FCI2009A1</li><li>• I/O card (remote transmission) FCI2007-A1</li></ul> <p>Features:</p> <ul style="list-style-type: none"><li>• Operating unit</li><li>• Operating add-on (empty)</li><li>• Card cage (2 slots)</li><li>• 150 W power supply</li><li>• Max. battery capacity 25 Ah</li></ul> <p>Operating unit options:</p> <ul style="list-style-type: none"><li>• Event printer FTO2001-A1</li><li>• Key switch (Kaba) FTO2005-C1</li><li>• Key switch (nordic) FTO2006-B1</li><li>• Operating add-on (2xLED indicator) FCM7213-Y3</li><li>• Operating add-on (4xLED indicator) FCM7214-Y3</li></ul>

## FC724




You will find information on the integrated extinguishing system and the individual extinguishing components that are available in a separate data sheet with the document ID 'A6V10880701'.

FC724-ZA	Housing (Comfort)
	<p>C-NET detector line:</p> <ul style="list-style-type: none"><li>• 504 addresses</li><li>• 4 loops/8 stubs</li></ul> <p>Features:</p> <ul style="list-style-type: none"><li>• Operating unit</li><li>• Operating add-on (empty)</li><li>• 150 W power supply</li><li>• Max. battery capacity 25 Ah</li><li>• 1 flooding zone (optional)</li></ul> <p>Operating unit options:</p> <ul style="list-style-type: none"><li>• Event printer FTO2001-A1</li><li>• Key switch (Kaba) FTO2005-C1</li><li>• Key switch (nordic) FTO2006-B1</li><li>• Operating add-on (2xLED indicator) FCM7213-Y3</li><li>• Operating add-on (4xLED indicator) FCM7214-Y3</li><li>• Exting. terminal (1 sector) XCM2002-A2</li></ul>

FC724-ZE	Housing (Comfort)
	<p>C-NET detector line:</p> <ul style="list-style-type: none"> <li>• 504 addresses</li> <li>• 4 loops/8 stubs</li> </ul> <p>Features:</p> <ul style="list-style-type: none"> <li>• Operating unit</li> <li>• Operating add-on (2xLED indicator)</li> <li>• 150 W power supply</li> <li>• Max. battery capacity 25 Ah</li> </ul> <p>Operating unit options:</p> <ul style="list-style-type: none"> <li>• Event printer FTO2001-A1</li> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> </ul>

## FC726

FC726-ZA	Housing (Large)
	<p>C-NET detector line:</p> <ul style="list-style-type: none"> <li>• Max. 1512 addresses</li> <li>• 4 loops/8 stubs</li> <li>• Can be extended up to 28 loops/56 stubs</li> </ul> <p>Extra module bus cards (option):</p> <ul style="list-style-type: none"> <li>• Line card (FDnet/C-NET) FCL2001-A1</li> <li>• Line card (SynoLOOP) FCL7201-Z3</li> <li>• I/O card (programmable) FCI2008-A1</li> <li>• I/O card (horn/monitored) FCI2009A1</li> <li>• I/O card (remote transmission) FCI2007-A1</li> </ul> <p>Features:</p> <ul style="list-style-type: none"> <li>• Operating unit</li> <li>• Operating add-on (empty)</li> <li>• Card cage (5 slots)</li> <li>• 150 W power supply</li> <li>• Max. battery capacity 45 Ah</li> </ul> <p>Operating unit options:</p> <ul style="list-style-type: none"> <li>• Event printer FTO2001-A1</li> <li>• Key switch (Kaba) FTO2005-C1</li> <li>• Key switch (nordic) FTO2006-B1</li> <li>• Operating add-on (2xLED indicator) FCM7213-Y3</li> <li>• Operating add-on (4xLED indicator) FCM7214-Y3</li> </ul>



---

**FC722**

This fire control panel is ideal for smaller applications, e.g., for use in workshops or hotels. Thanks to the flexible networking options, the Station can also be used for large-scale sites.

---

**FC723**

This fire control panel is ideal for medium-sized applications, e.g., for use in industrial plants, regional banks, or office complexes.  
Within the context of modernization, the Station allows a gradual and seamless transition from older systems to Cerberus PRO.

---

**FC724**

This fire control panel is ideal for medium-sized applications, e.g., for use in industrial plants, regional banks, or office complexes.  
Thanks to the flexible networking options, the Station can also be used for large-scale sites.

---

**FC726**

This fire control panel is ideal for large applications, e.g., for use in industrial plants, office complexes, or production halls.  
Within the context of modernization, the Station allows a gradual and seamless transition from older systems to Cerberus PRO.

---

**FT724**

The fire terminal is designed for remote operation of a fire detection system, e.g., on one floor.

## Application matrix






Use	FC722	FC723	FC724	FC726	FT724
<b>Smaller applications</b> , such as workshops or hotels	●	○	●	○	—
<b>Medium-sized applications</b> , such as medium-sized industrial plants, regional banks, or medium-sized office blocks	○	●	●	○	—
<b>Large applications</b> , such as industrial plants, large office blocks, or production halls	○	○	○	●	—
<b>Large applications with high redundancy requirements</b> , such as airports, power generation facilities, and shopping malls	—	—	—	○	—
<b>Integrable extinguishing</b>	●	—	●	—	—
<b>Modernization</b> of existing fire detection installations	—	●	—	●	—
<b>Scalability</b> due to networking	●	●	●	●	●
<b>Remote operation</b> of an existing fire detection system	—	—	—	—	●

- Preferred application
- Conditionally possible application
- Application not possible or not recommended

Fire control panels



You will find detailed information on the available control panel types and the available variants in the separate data sheet for the respective control panel type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [→ 21]'.

	FC722	FC722	FC723	FC724	FC726
					
<b>Housing type</b>	Standard	Comfort	Comfort	Comfort	Large
<b>Supply</b>					
Power supply	70 W	150 W	150 W	150 W	150 W
Max. battery capacity	12 Ah	25 Ah	25 Ah	25 Ah	45 Ah
<b>Interfaces</b>					
Slots for module bus cards	–		2	–	5
Ethernet port RJ45	1		1	1	1
<b>Inputs / outputs</b>					
Number of integrated C-NET lines:					
• Loops (with loop extension) or	2/4		2/4	4/8	4/8
• Stubs (with loop extension)	4/8		4/8	8/16	8/16
Number of C-NET lines in addition to line cards:					
• Loops/stubs	–		2x 4/8	–	5x 4/8
Max. number of C-NET addresses	252		756	504	1512







	FT724
<b>Event memory</b>	Up to 13000 events can be called up for each station based on various criteria.
<b>Ground fault monitoring</b>	All the outgoing detector lines running out from the control panels are monitored for ground faults.

## Accessories

You will find information on accessories and possible extensions in the separate data sheet for the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [→ 21]'.

## Device combinations

### Hardware extensions



You will find detailed information on the hardware extensions and compatibilities in the separate data sheet for the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [→ 21]'.

Hardware extension	FC722	FC723	FC724	FC726	FT724
Network module (SAFEDLINK) FN2001-A1	•	•	•	•	•
Repeater (SAFEDLINK) FN2002-A1	•	•	•	•	•
Loop extension (FDnet) FCI2003-A1	•	•	•	•	–
Line card (FDnet/C-NET) FCL2001-A1	–	•	–	•	–
Line card (SynoLOOP) FCL7201-Z3	–	•	–	•	–
I/O card (remote transmission) FCI2007-A1	–	•	–	•	–
I/O card (programmable) FCI2008-A1	–	•	–	•	–
I/O card (horn, monitored) FCI2009-A1	–	•	–	•	–
Sounder module FCA2005-A1	•	•	•	•	–
RS232 module (isolated) FCA2001-A1	•	•	•	•	•
RS485 module (isolated) FCA2002-A1	•	•	•	•	•
Fire brigade periphery module (DE) FCI2001-D1	•	•	•	•	–
Extinguishing card XCI2005-A1 <sup>1</sup>	•	–	•	–	–
Event printer FTO2001-A1	•	•	•	•	•
Event printer DL3750+	•	•	•	•	•
LED indicators	•	•	•	•	•

- Extension possible
- Extension not possible

<sup>1)</sup> Installation is only possible if there is sufficient space in the housing.

**Fire detector**



- Fire detectors with the latest generation of evaluation algorithms.
- Signals are processed using **ASA technology™**.
- Time-dependent and process-dependent detection behavior.
- Maximum detection reliability thanks to unique detector properties.

**Radio fire detection system**



- Radio fire detection system with full integration into C-NET
- Wireless coupling with mesh technology
- Costly or visible cable installations are not required, which makes the radio fire detection system particularly useful for museums and churches
- Installation can be carried out without interrupting operation.
- Radio gateway FDCW241 communicates with up to 30 radio detectors (smoke detectors and manual call points), with up to 16 overlapping radio cells supported at each point.

**Aspirating smoke detector**



FDA221, FDA241

- This aspirating smoke detector is designed to detect smoke at a very early stage and is intended for protecting small areas that are classed as operationally critical.
- The detector continually sucks in air samples through extraction openings in a network of pipes.
- The air is supplied to a detection chamber where the presence of the smallest smoke particles can be detected using dual-wavelength technology or laser light.

**Sounders and sounder bases (sounders, sounder beacons, voice sounders)**

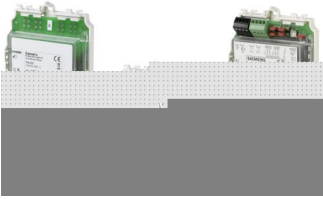


- Operation of the sounders and sounder bases on the C-NET detector line.
- Supply and communication via C-NET
- No costly additional cabling required
- Meets the requirements of the EN 54-3 standard
- Max. 16 tones to choose from, 2 programmable events: 'Warning (ALERT)' and 'Evacuation (EVAC)\*'
- Optional: integrated beacon\*; meets the requirements of the EN 54-23 standard
- Optional: additional voice output\*:
  - 15 languages integrated in the device, additional languages can be ordered
  - Each voice message can be emitted in two languages
  - Max. seven available events
  - Customer-specific voice messages and/or tones can be ordered

\* Only possible for certain types of sounders and sounder bases.

## Input and output modules

---



- Statuses can be monitored using an input module, e.g., door monitors, fan controls, or for the activation of sprinkler alarms.
- Input/output modules are used for the decentralized controls of fire safety doors, fans, and similar applications.
- The inputs can be used for confirmation purposes, for monitoring statuses, or for controlling the standard extinguishing interface (SST) in accordance with VdS.
- The transponder has two inputs/outputs that can be configured for the following applications:
  - Connection of collective limit value detectors
  - Monitored control of alarm devices

## Line separator

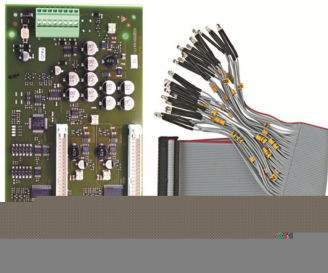
---



- A line separator ensures that multiple stub lines do not fail in the event of a short-circuit.
- The line separator is installed between two stubs on the C-NET if there are no other Cerberus PRO line devices between the stubs which can perform a line separation function.

## Mimic display driver

---



- The mimic display driver FT2001-A1 has 2x 24 outputs for controlling mimic display LEDs.
- Operation on the C-NET detector line
- Two control outputs for 'Local buzzer' and 'LED operation'
- Two inputs for 'Silence buzzer' and 'LED test'
- The LEDs are connected via a ribbon cable.

## Floor repeater terminal and floor repeater display

---

- The floor repeater terminal FT2010 and the floor repeater display FT2011 are operated directly on the C-NET detector line.
- The floor repeater display FT2011 displays messages and events from selected areas of the fire detection system.
- The floor repeater terminal FT2010 displays messages and events from selected areas of the fire detection system and also enables operation.
- The responsible customer personnel (e.g., ward nurses) have access to a clear and well laid-out user interface. This displays customer-specific plain text messages to enable pinpointing of events.
- The display is of the same type as fire terminal FT724.

## Details for ordering

You will find ordering information in the separate data sheet of the respective control panel or terminal type and in the system documentation. You will find information on the document ID of the documents in section 'Product documentation [→ 21]'.

## Product documentation

Title	Document ID
<b>System documentation</b>	
System description	A6V10210355
Product data	A6V10210368
Planning	A6V10210362
Mounting/Installation	A6V10210390
<b>Data sheets</b>	
FC721 - fire control panel	A6V10203220
FC722 - fire control panel	A6V10206525
FC723 - fire control panel for modernization	A6V10379246
FC724 - fire control panel	A6V10207176
FC726 - fire control panel (modular)	A6V10263277
FT724 - fire terminal	A6V10207898
Fire detection system with integrated single-sector extinguishing	A6V10880701
Network Security Guidelines	A6V101039439
Planning overview	A6V10332842


Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

<https://siemens.com/bt/download>





## Notes

### Safety

	<b>⚠ CAUTION</b>
	<b>National safety regulations</b> Failure to comply with national safety regulations may result in personal injury and property damage. <ul style="list-style-type: none"><li>• Observe national provisions and comply with the appropriate safety regulations.</li></ul>

### Disposal

 	The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage. <ul style="list-style-type: none"><li>• Dispose of the device through channels provided for this purpose.</li><li>• Comply with all local and currently applicable laws and regulations.</li><li>• Dispose of empty batteries in designated collection points.</li></ul>
--	--

### Guarantee

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

### Technical data

You will find information on the technical data of the individual fire control panels and fire terminals in the separate data sheet for the respective control panel or terminal type. You will find information on the document ID of the documents in section 'Product documentation [→ 21]'.