

FieldCommander®

Application Framework
voor webbased devices.



from Device to Enterprise

CER®

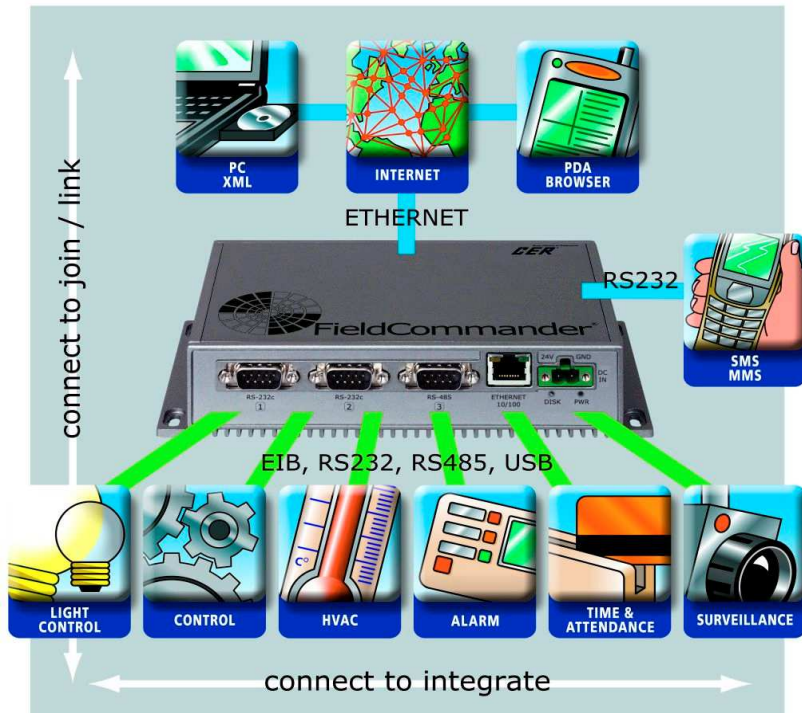
www.cer.com

FieldCommander® : advanced application framework, supporting your products and projects with reliable and easy software.

The FieldCommander software is the solid foundation of every FieldCommander product.

Its dedicated design provides an easy and flexible application framework with high throughput and has proven to be a reliable software environment.

Use FieldCommander as a building block for your product !



Powerful software

- realtime operating system included
- multi-user support
- multi-device support
- No PC required !!!



Ready for the future

- Web enabled
- IP-based



High performance

- The FieldCommander sw is optimized for fast operation with high throughput.



Security

- security by password
- security by IP-permission
- SSL (encrypted communication)
- no PC is required



Fieldbus/interface support

- Support many interfaces and fieldbusses, even wireless.



Communication

- Support for many internet communications standards, so creating webapplication is easy.
- Support mobile phone communications.
- Support linking FieldCommanders together and exchange/share data



Software models.

FieldCommander software is available in 3 models /levels:

- Standard level
- Advanced level
- Extended level

Applications

Connectivity and interfacing

Combine sensors, devices, systems, link communication and create integrated systems.

Support for many communication systems

Support for internet and mobile phone communication. Connect your devices to the world from anywhere, anytime. Remote machine/system maintenance.

Monitoring/visualisation

Monitor and visualize the system status; generate realtime graphical webpages

Alert and Report

Alert users with voice, phone, SMS, pager, email or webnotify.
Report system/application info using your preferred communication.

Remote

Remote maintenance, configuration and diagnostics.

Exporting

Export system data for processing in a hosting system or in your PC.

Logging

Log all events.

Data acquisition

Measure and acquire the data. Trigger on limits. Store and retrieve the info.

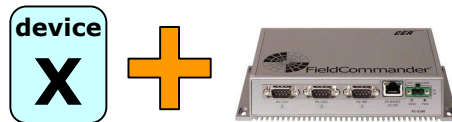
FieldCommander® supports your application development in many ways



1. Or... FieldCommander supports you if you want an integration solution



2. Or... FieldCommander supports you if you need extra Add On Functionality



3. Or... FieldCommander is a reliable platform for many years standalone functionality



a flexible webcontroller



User interface

- HTML webpages
- Realtime graphical display
- WebNotify messages for alerts
- System administration; Debug info
- Embedded browser + virtual keyboard (for FC4xxx)
- PHP server for reports/maintenance



Networkservices included

- TCP/IP for ethernet communication
- UDP/IP for communication
- HTTP for webserver
- XML for data linking
- DHCP to distribute IP-numbers
- NTP to support internet clock
- ARP to support IP-addressing
- BOOTP to support Booting
- DNS to support domainnames
- ICMP to support ping-requests
- SSL for security



Communication

- Support for many internet communications standards, like:
- Email output+input (SMTP)
- File transferring (FTP)
- Support mobile phone comm. like.
- SMS (text message) output
- SMS (text input) input
- MMS (picture) output
- Support voice messages (audio) and interactive response
- Support linking FieldCommanders together and exchange/share data
- Support (ESPA) pagers systems



Fieldbus support

- Support fieldbus protocols like:
- ASCII
 - HVAC units (Modbus)
 - Building Automation (KNX/EIB)
 - Alarmsystems (Galaxy; SIA)
 - I/O modules (Adam/Nudam)
 - Sensors (RFID; EnOcean; ZigBee)
 - IP camera's

FieldCommander®: advanced building blocks for your products or applications.

FieldCommander software specs	Standard level	Advanced level	Extended level
General	S	A	E
Scripting language (FCscript)	X	X	X
Watchdog & security included	X	X	X
Hardware specs	1)	1)	1)
Database	S	A	E
Relational database (SQL) included	X	X	X
Meta tags (memory), max:	250	4000	4000
Data processing components, max:	16	64	64
User interface	S	A	E
Webbased configuration & administration	X	X	X
Custom dynamic HTML pages with SSI	X	X	X
FCphp: Custom dynamic PHP pages	X	X	X
Realtime notification (WebNotify)	-	X	X
Realtime graphics display (WebGUI)	-	X	X
Embedded webbrowser with Java	-	-	X
Virtual keyboard support	-	-	X
Communication	S	A	E
Email (SMTP) out	X	X	X
Text messaging (SMS) in/out	X	X	X
Multimedia messaging (MMS) out	-	1)	1)
FTP client for file transfer	-	X	X
Audio features; voice messages; VoIP	1)	1)	1)
Telephone functions	X	X	X
FC to FC export	X	X	X
FC to FC import	-	X	X
XML export	-	X	X
UDP in/out	X	X	X
Network services	S	A	E
IPv4	X	X	X
Web server (HTTP)	X	X	X
Web server with SSL (HTTPS)	X	X	X
FTP server for system administration	X	X	X
Network time protocol (NTP) client/server	-	X	X
DHCP/BOOTP	X	X	X
SNMPv2 agent	X	X	X
UPnP client; limited to gateway devices	X	X	X
Camera support and imaging functions	-	X	X
Interfaces	S	A	E
Many, many, see interface list	X	X	X

1) depending on productmodel



Programmable logic control

- FieldCommander is programmable with the built in FieldCommander script
- FieldCommander script contains many high end commands
- FieldCommander script supports also many Java-script alike commands enabling you to create whatever glue-logic is required
- Extra PHP server to support maintenance of databases.



Data Processing

- SQL database tables
- file I/O
- metatags



Visualization=webpage

- Use your browser for displaying data on your PC or PDA
- Creating the graphical output or userinterface is as easy as creating your homepage. Simply because it is the same.
- Use the same webdesign tools you are familiar with to create FieldCommander webpages.



WebGUI=realtime Graphics

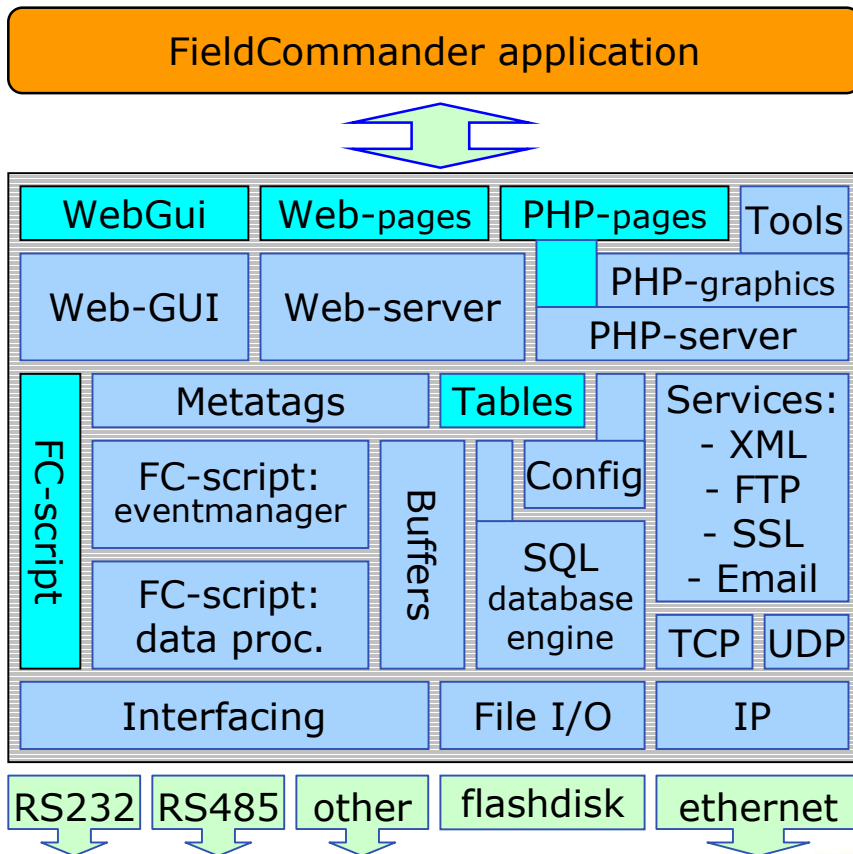
- Display graphical webpages in realtime (requires JVM >V1.4 on the client)
- WebNotify for realtime alerts. WebGUI is available in the Advanced or Extended version.





Report


- export custom XML document filled with up to date values
- generate graphs and gauge images of the fly with recent values
- upload your own HTML documents to generate webpages.
- send customized e-mail reports
- PHP server supports reports.

FieldCommander®: rely on complete and powerful software blocks; available today.



- install on CER hardware
 - or
 - install on your OEM hardware
- 

 = Supplied with FieldCommander

 = To be configured by system integrator

Order info

FC-

FieldCommander software is integrated in the FieldCommander products. Sw only is available for OEM. OEM requests are welcome for private labeled versions.



Embedded, NO PC required

- FieldCommander software is running embedded, so no PC is required
- If it is needed for your application, FieldCommander can work intense and closely with PC's
- A PC can be helpful as a tool during application development.



Integration

- Linking different systems has never been so easy.



Browser support

- FieldCommander supports several browsers, like Internet Explorer, FireFox or Netscape. Java Virt. Mach. en Javascript support is required.



Support

- application support available
- support for script design available



Proprietary Protocol

- Please contact CER for custom made protocol support.



OEM

- Please contact CER for brand labeled OEM designs and license versions.



CER International bv
 Postbus 258
 NL-4700 AG Roosendaal
 Tel.: +31(0)165-557417
 Fax: +31(0)165-562151
 www.CER.com
 info@CER.com