

# Solution & Service

K-01

SOLUTION & SERVICE

F&e Web Server

## Innovative FA Solution in the IT Age Status Monitoring for Equipment and Machines

### Remote Monitoring Server

*F&e Web Server Pro* **New**

#### FWS-SB20-200

**Micro Controller Unit**  
CPU-SB20/128(FIT)GY +

**F&e Web Server Pro  
Compact Flash 128MB**

Linux, Web Server, Package Soft

**FWS-SB20-200-CFC**

F&eIT Web Server Pro is a remote monitoring system equipped with data collection and Web server functions. By integrating this system into equipment or machinery, remote supervision can be performed via web browser from a PC. System configuration with minimum programming.

[Compact Design]

**Micro Controller Unit**  
CPU-SB20/128(FIT)GY

- Easy DIN rail installation
- Naturally cooled fanless operation
- High reliability and rugged design
- Ultra-compact, power-saving CPU



[Conventional Products]

*F&e Web Server Ver.1.30*

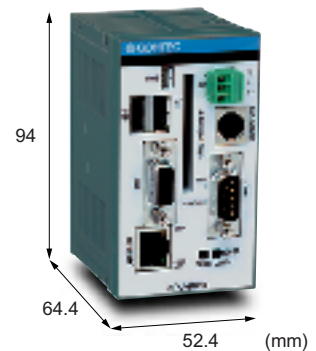
#### FWS-SB10-130

**Micro Controller Unit**  
CPU-SB10/128(FIT)GY +

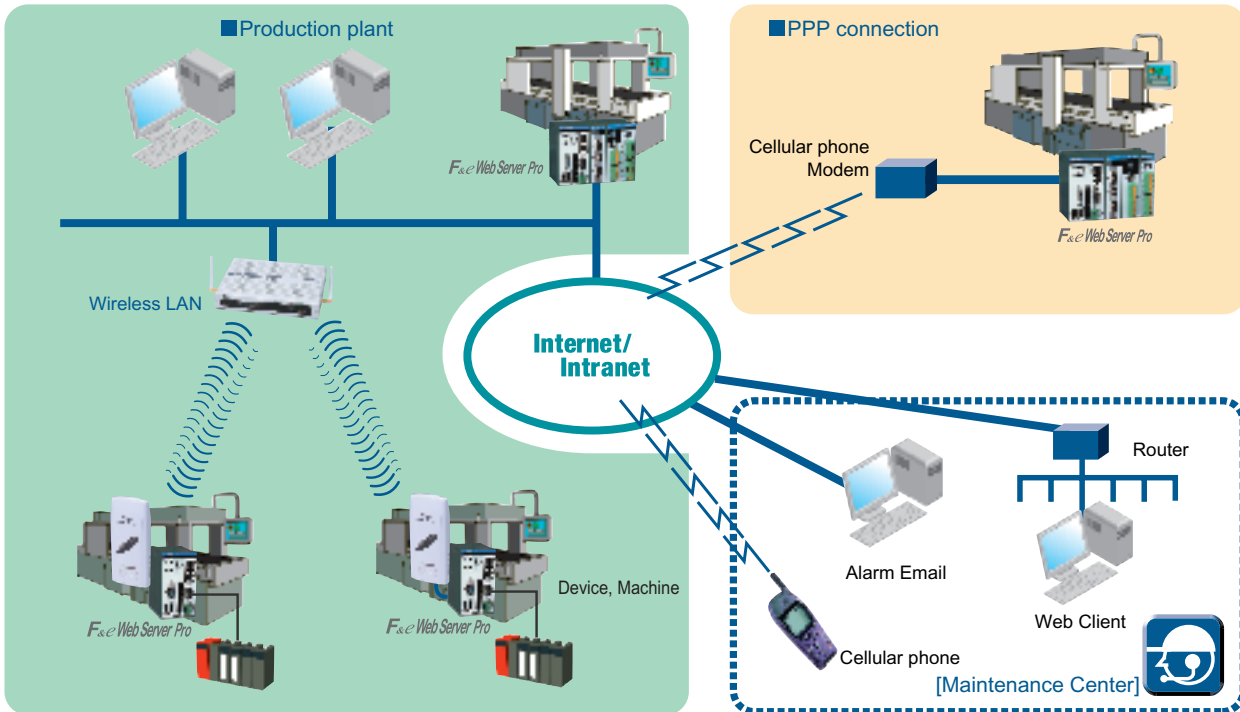
**Compact Flash 64MB**  
Linux, Web Server, Package Soft

[Compact Design]

**Micro Controller Unit**  
CPU-SB10/128(FIT)GY



Example of F&e Web Server Pro System Configuration



K-02

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Main features of F&e Web Server Pro

Data collection

- Supports a maximum input of 64 points analog, 128 points digital and 16 points counter. (Max 8 units/controller)
- 48 consecutive points in a maximum of 8 blocks of PLC data (bits and words) can be collected (max.384 points).
- Counter input increments can be collected at regular intervals.
- Increments can also be collected at regular intervals for the number of digital input transition and for ON time.

Monitoring

- Status of all the devices can be monitored using web browser.
- Java applet provides various functions including meter, trend graph, filling, image and history display.
- Monitoring screen can be easily created using Web browser. PHP programming is also supported for advanced use.

Event supervision

- Maximum 300 points of event generation can be supervised.
- When an event is generated, mail sending, file saving or arbitrary command execution can be specified.
- Generation and recovery of events can be conducted under different conditions (different signals).
- All collection device signals are supported.
- Event history can be retained up to 1000 items.

File saving

- Files can be saved in CSV format for viewing in a web browser
- Files can be displayed either in table or line chart format
- Files can be saved on CF as well as on RAM of main unit
- Maximum 99,999 files can be saved
- Capacity of one file is 5MB. Maximum 15MB of data can be saved in RAM and 60MB in CF
- Flexible file saving intervals can be set (i.e. every minute, every hour &/or every day - cannot be shorter than 1 second)
- When a file is full, you can save the data by 1) changing the file name, 2) overwriting the old data or 3) clearing the file.
- A full file can be attached to an e-mail for transmission (LHA compression).
- A full file can be transmitted via FTP.

Sending e-mail

- A maximum 20 patterns can be set for e-mail destinations. Each pattern is capable of sending mails to 300 byte-equivalent addresses.
- A maximum 300 different types of messages can be set.

Execution schedule

- 10 types of command can be set for regular execution.

Maintenance mode

- By selecting the maintenance mode, you can easily cancel operations including mail transmission, file saving, event history saving and command execution.

Installation environment

Item	Specification	
Environment	Operating temperature	0~50°C
	Storage temperature	-10~60°C
	Operating humidity	10~90%RH (no condensation)
	Floating dust particles	Must not be excessive
	Corrosive gases	Must not be present
	Line Noise	AC Line/2kV, Signal Line/1kV
	Resistance *1	(IEC 1000-4-4Level 3, EN61000-4-4 Level 3)
	Ground	Class D
	Installation Method	35mm DIN rail (standard)

\*1 With POW-AD22GY

Options

Data I/O modules\*2

RS-232C Communication Module	2 channels	COM-2(FIT)GY
Isolated Digital Input Module	16 inputs	DI-16(FIT)GY
Isolated Digital I/O Module	8 inputs / 8 outputs	DIO-8/8(FIT)GY
Isolated Digital Output Module	16 outputs	DO-16(FIT)GY
Isolated Analog Input Module	12bit 8 channels	ADI12-8(FIT)GY
Isolated Counter Module	24bit UP/DOWN counter	CNT24-2(FIT)GY
	2 channels	

\*2 Modules interface with micro controller unit via stack connector

Dedicated Power Supplies

DC-DC Power Supply Unit	Input: 10 to 30VDC Output: 5VDC 3A	POW-DD10GY
DC-DC Power Supply Unit	Input: 30 to 50VDC Output: 5VDC 3A	POW-DD43GY
AC-DC Power Supply Unit	Input: 85 to 132VAC Output: 5VDC 3A	POW-AD13GY
AC-DC Power Supply Unit	Input: 85 to 264VAC Output: 5VDC 2A	POW-AD22GY
AC-DC Power Supply Unit	Input: 85 to 264VAC Output: 5VDC 4.6A(230VAC), 5VDC 4.2A(115VAC)	POW-AD25GY
AC Adapter	Input: 90 to 264VAC Output: 5VDC 2A	POA-AD22