



# FX3S

**NEW**

The newly released FX3s adds extra expandability to the high cost performance of the venerable entry-level FX1s.

FX3s makes it possible to utilize analog, Ethernet and MODBUS® functions even in small-scale systems.

## New possibilities

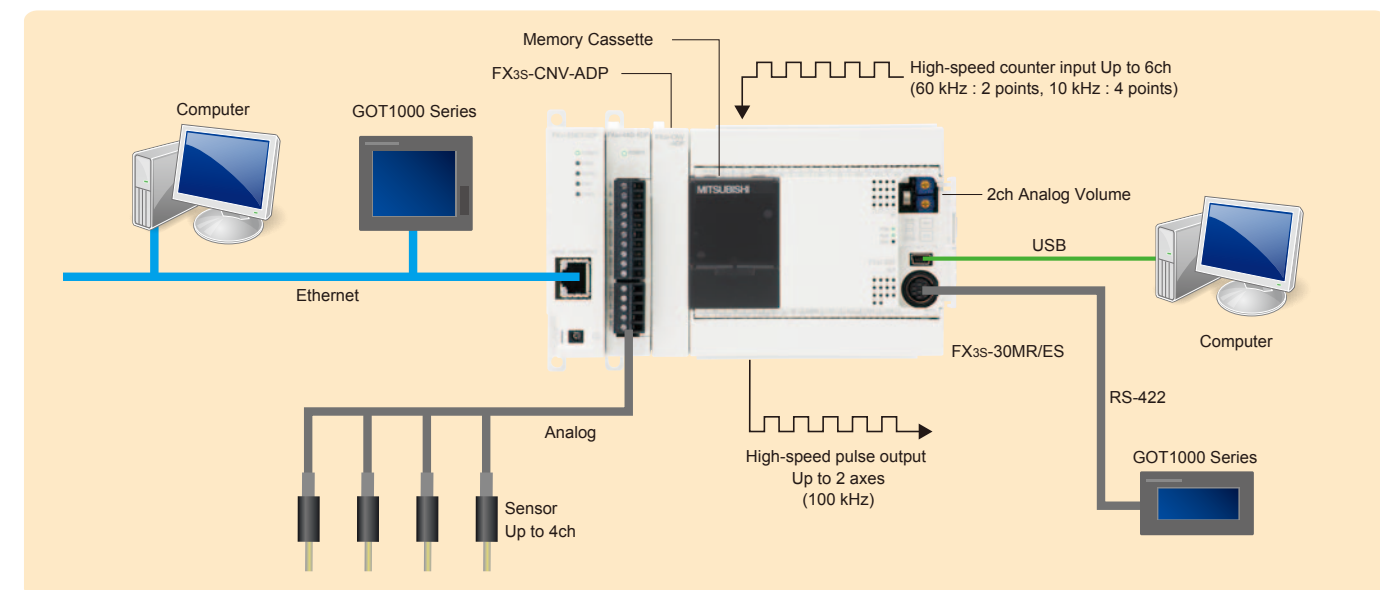
### Main unit lineup



FX3s-10MR/ES	AC D R	FX3s-20MR/ES	AC D R	FX3s-30MR/ES	AC D R
FX3s-10MT/ES	AC D T1	FX3s-20MT/ES	AC D T1	FX3s-30MT/ES	AC D T1
FX3s-10MT/ESS	AC D T2	FX3s-20MT/ESS	AC D T2	FX3s-30MT/ESS	AC D T2
6 inputs 4 outputs		12 inputs 8 outputs		16 inputs 14 outputs	
FX3s-14MR/ES	AC D R				
FX3s-14MT/ES	AC D T1				
FX3s-14MT/ESS	AC D T2				
8 inputs 6 outputs					

AC AC power supply    D DC input (sink/source)  
R Relay output    T1 Transistor output (sink)    T2 Transistor output (source)

### System configuration example

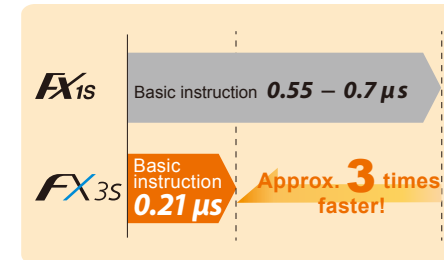


## Excellent cost performance!

Equipped with the performance of FX3 series while maintaining backwards compatibility with FX1s.

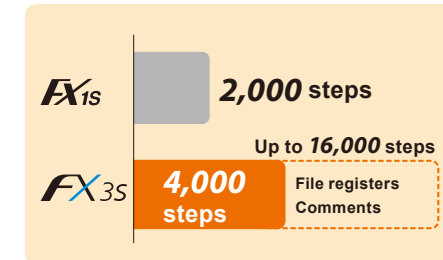
### High-speed operation

- FX3s processes basic instructions in 0.21 μs, which is faster by approximately 3 times compared with FX1s.



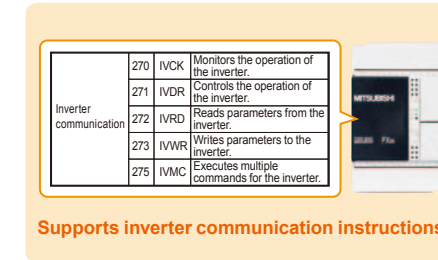
### Increased program capacity

- Up to 4,000 steps program capacity.  
- 2,000 steps file register capacity.  
- Up to 12,000 steps for comments.  
In total, the built-in EEPROM of the FX3s can store up to 16,000 steps.



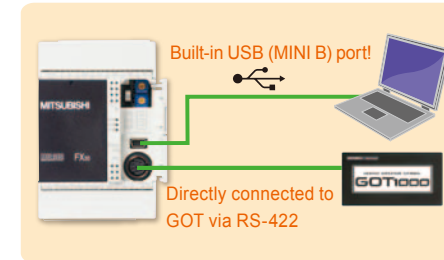
### More instructions

- Supports inverter communication instructions.  
- Supports floating point instructions.  
- Supports 116 applied instructions (31 more instructions than FX1s).



### Enhanced communication functions

- Built-in USB (MINI B) port and RS-422 port.  
- 115.2 kbps serial communication.  
USB port supports 12 Mbps communication speed.



### Enhanced analog expandability

- Analog expansion board can be connected.  
- Special analog adapter can be connected.  
- Analog input adapter for temperature sensor can be connected.



### Compatibility with global standards

- Conforms to the EC Directive and UL Standard.  
- Conforms to the Radio Law in South Korea.  
- Select between sink and source inputs.

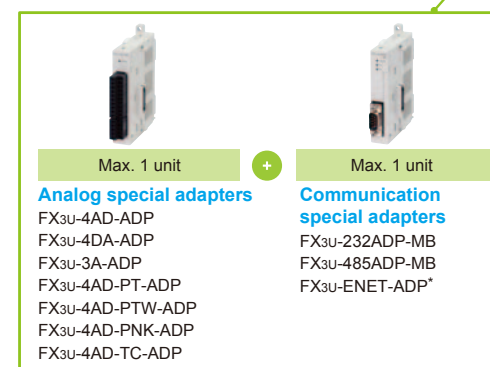
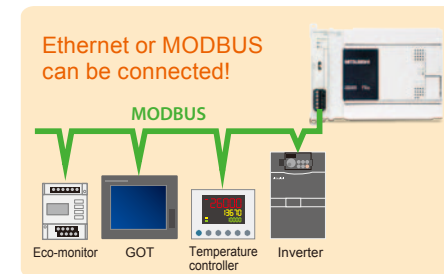


## Unprecedented expandability with optional products!

Analog, Ethernet and MODBUS products can be connected.

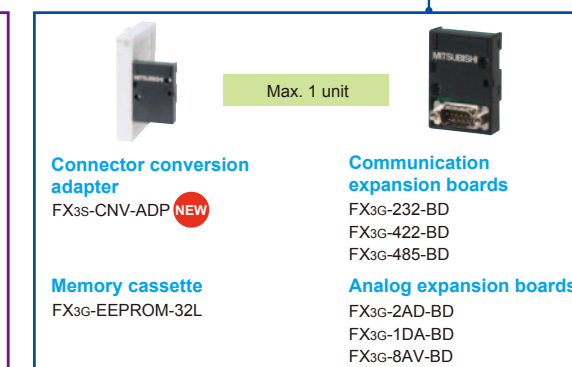
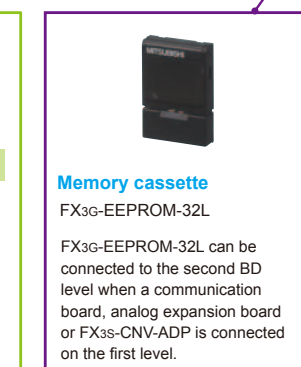
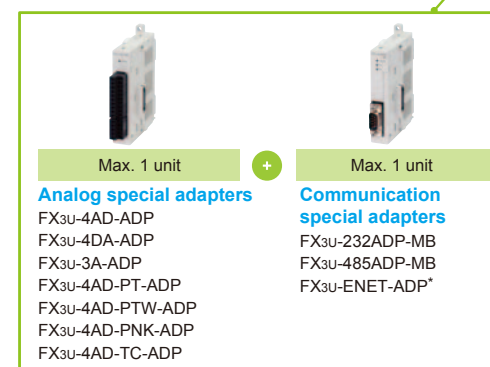
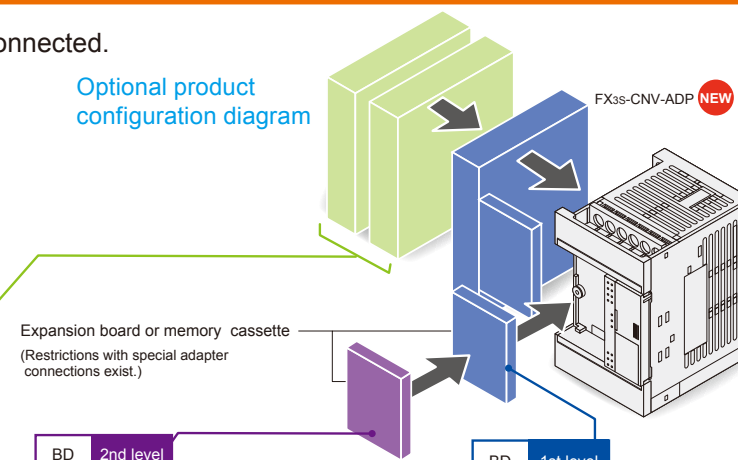
### Enhanced expandability

- Special adapter for Ethernet can be connected.  
- Special adapter for serial communication (compatible with MODBUS) can be connected.



Up to two special adapters (up to one analog adapter and up to one communication adapter) can be connected. (Restrictions with expansion board connections exist.)  
\* : When using FX3u-ENET-ADP, connect it at the last stage (left end) of adapters.

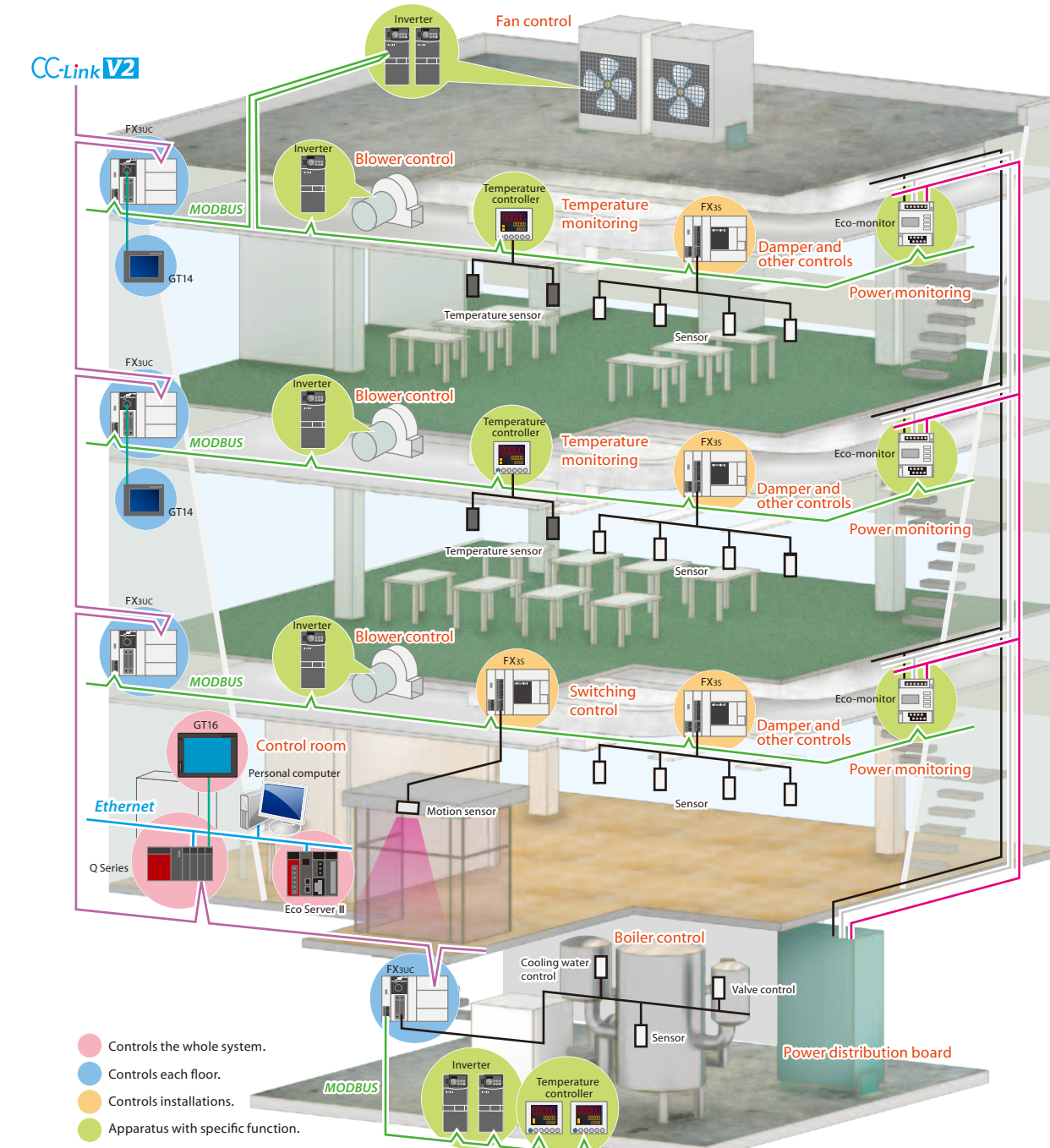
### Optional product configuration diagram



## New possibilities using FX3s

Achieve extensive cost reductions by flexibly combining FX3s with other PLCs.

For example, by properly distributing PLCs in a network in accordance with the desired application, you can reduce loads on each CPU and costs of the entire system. In addition, you can construct an energy-saving system by combining with power monitoring functions.



## Straightforward programming with GX Works2

Powerful, intuitive, and efficient. GX Works2 reduces program development time with an easy-to-use interface.

Use GX Works2 also for setting up Ethernet.

FX3u-ENET-ADP



PLC engineering software

# GX Works2