## Specification

| Item | | | Description | | Remark |
|---|---|---|---|---|---|
| | | | XGR-CPUH/F | XGR-CPUH/T | |
| Media | | | Fiber optic | Twisted pair | |
| Operation method | | | Cyclic execution, Periodic operation, Interrupt operation, Fixed scan | | |
| I/O control method | | | Scan synchronized batch processing method (Refresh method) | | |
| Program language | | | LD (Ladder Diagram), ST (Structured Text),<br>SFC (Sequential Function Chart), IL (Read only) | | |
| Number of Instructions | Operator | | 18 | | |
| | Standard function | | 130 + Real type function | | |
| | Standard function block | | 41 | | |
| Special function/ function block | | | Special function block, Process control function block | | |
| Processing speed | LD | | 0.042㎲/Step | | |
| | MOV | | 0.126㎲/Step | | |
| | Real type | | ±: 0.602㎲(S), 1.078㎲(D)<br>x : 1.106㎲(S), 2.394㎲(D)<br>÷ : 1.134㎲(S), 2.66 ㎲(D) | | S : Real type<br>D : Long real type |
| I/O points | | | I: 131,072 points, Q: 131,072 points (Total: 1131,072) | | |
| DRAM | Program memory | | 7MB | | Including Upload, Parameter, System area<br>*Battery back-up memory : 8MB |
| | Data memory | | 2MB | | |
| | Reserved memory | | 7MB | | |
| Flash memory | | | 16MB | | |
| Data memory | Direct variable | | 256k Byte | | |
| | Auto allocated variable | | 512k Byte | | |
| | Timer | | No limitation, Range: 0.001sec ~ 4,259,967.295sec (1,193hours) | | |
| | Counter | | No limitation, Range: -32,768 ~ +32,767 | | |
| | Flag | System | 4k Byte | | |
| | | Communication | 64k Byte | | L, N area |
| | | Special | 2k Byte (32 base, 16 slot, 32 channel ) | | U area : Analog device area |
| File register | | | 64k Byte *2 | | R area : read/write (Command, XG5000) |
| Program | Number of program blocks | | 256 | | |
| | Initial task | | 1 (_INT) | | |
| | Cycle task | | 32 | | |
| | Internal device task | | 32 | | |
| Operation mode | | | RUN, STOP, DEBUG | | |
| Restart mode | | | Warm, Cold | | |
| Self diagnostic functions | | | Watchdog timer, Memory error, I/O error, Battery error, Power Supply error | | |
| Program download | | | RS-232C (1CH), USB (1CH) | | |
| Data retain | | | Auto allocated variable: set by variable definition<br>Direct variable: set by parameter | | |
| Max. expansion base | | | 31 stages | | |

## Specification

| Item | Hardware | | Remark |
|---|---|---|---|
| CPU module | 2 slot / Fiber, Twisted fair | | |
| Expansion drive module | 1 slot / Fiber, Twisted fair, Hybrid | | |
| Base | Main base: 6 slot, Expansion base: 12 slot | | |
| Power | AC110V | 5V-5.5A | |
| | AC220V | 5V-5.5A | |
| | AC110V | 5V-8.5A | |
| | AC220V | 5V-8.5A | |
| Expansion method and Max. expansion base | 31 stages by network | | |
| Base number setting | Rotary switch of expansion drive module | | |
| Distance between expansion bases | Twisted fair: 100m (3km), Fiber: 2km (60km) | | |
| Master/Standby switching over time | 50ms or less | | |

## Available modules for each base

| | Base | Available modules |
|---|---|---|
| 1 | Main base | CPU, Ethernet module (XGL-EFMx), RAPIEnet module (XGL-EIMx)<br>* x: T (Twisted fair), F (Fiber optic), H (Hybrid) |
| 2 | Expansion base | I/O modules for XGI (Ethernet based communication module should be installed on Main base<br>Number of communication module: 12 for High-speed link, 8 for P2P<br>Number of analog module : Analog input (139), Analog output (250) |