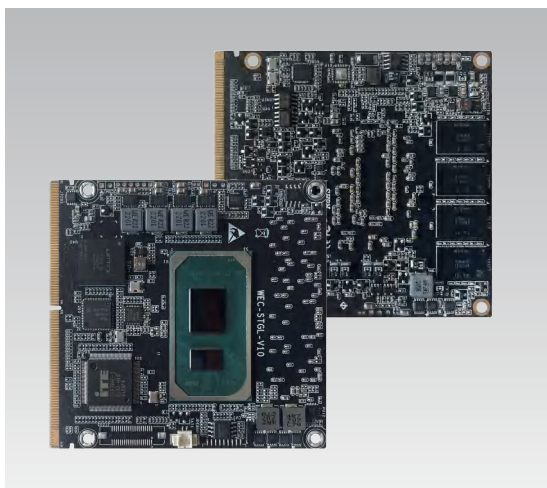




# WEC-STGL

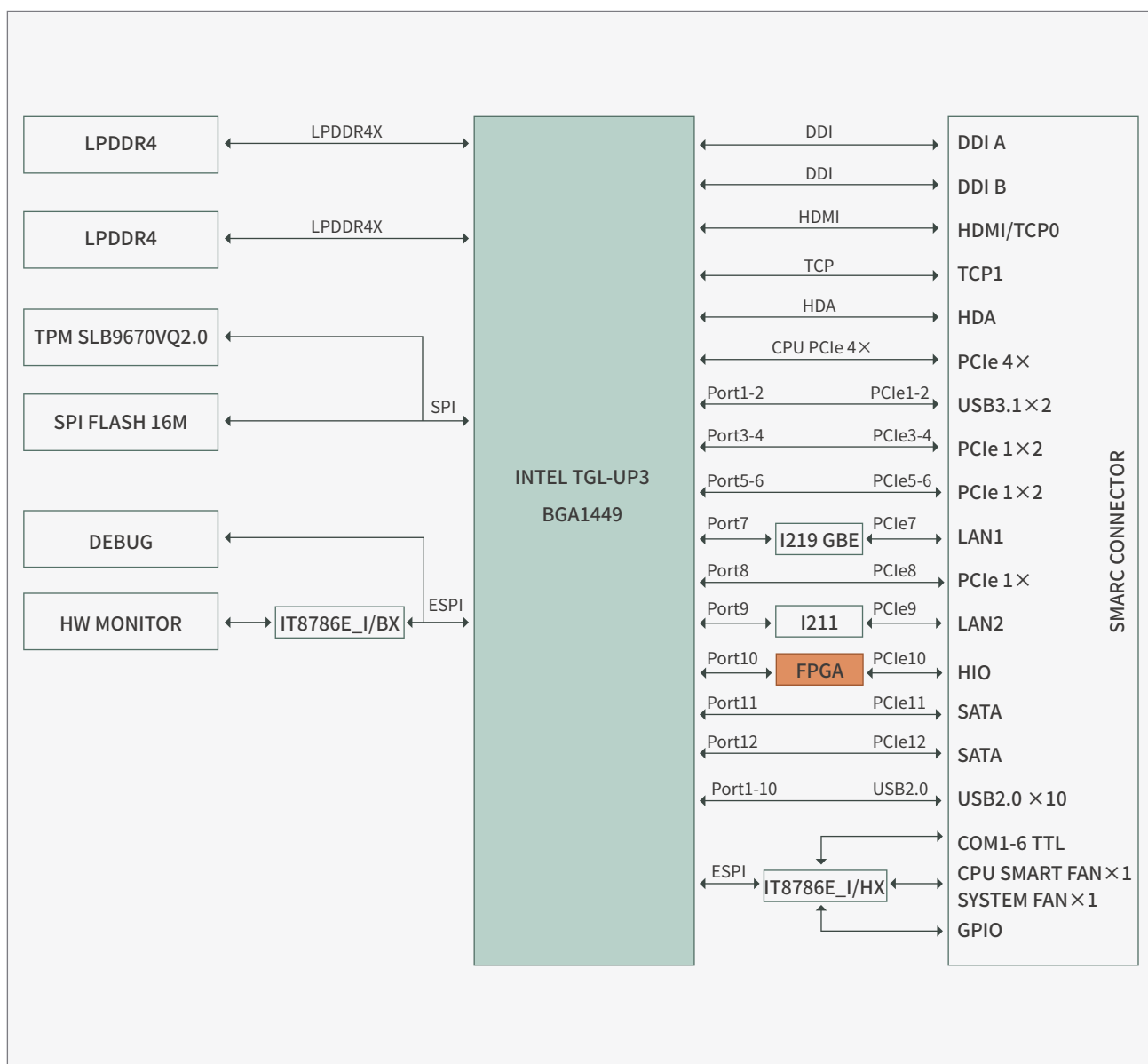
## FEATURE:

- Belong to the "Sprite" series core-board, featuring excellent compatibility and being compatible with other core boards of the Sprite series
- Intel Tiger Lake processor
- Up to 32GB memory
- 2×GbE, 10/100/1000Mbps
- 3×USB 3.0, 4×USB 2.0, 6×COM, 1×GPIO, 2×CAN
- 2×PCIe 2.0, 4×PCIe 3.0
- Support 33 high-speed I/Os, provided by the integrated FPGA

## SPECIFICATION

| Product Model    | Product Model    | WEC-S6305E                          | WEC-S1115 | WEC-S1125 | WEC-S1135              | WEC-S1165 |
|------------------|------------------|-------------------------------------|-----------|-----------|------------------------|-----------|
| CPU              | Processor Number | 6305E                               | I3-1115G4 | I3-1125G4 | I5-1135G7              | I7-1165G7 |
|                  | Cores/ Threads   | 2/2                                 | 2/4       | 4/8       | 4/8                    | 4/8       |
|                  | Max. Frequency   | 1.80GHz                             | 4.10GHz   | 3.70 GHz  | 4.20GHz                | 4.7GHz    |
|                  | Cache            | 4MB                                 | 6MB       | 8MB       | 8MB                    | 12MB      |
|                  | TDP              | 15W                                 | 28W       | 28W       | 28W                    | 28W       |
|                  | BIOS             | AMI UEFI BIOS                       |           |           |                        |           |
| Memory           | Type             | LPDDR4X 4266MT/s                    |           |           |                        |           |
|                  | Max Capacity     | 64GB                                |           |           |                        |           |
|                  | Channel/Socket   | Dual-channel / Onboard Memory       |           |           |                        |           |
|                  | ECC              | N/A                                 |           |           |                        |           |
| Storage          | eMMC             | eMMC 5.1, 8/16/32/64/128GB          |           |           |                        |           |
|                  | SATA             | 1× SATA 3.0                         |           |           |                        |           |
| GPU              | Controller       | Intel UHD Graphics                  |           |           | Intel Iris Xe Graphics |           |
|                  | Max. Frequency   | 1.25GHz                             |           |           | 1.3GHz                 |           |
| Display          | eDP              | 1, Max Resolution 4096×2304 @60Hz   |           |           |                        |           |
|                  | HDMI             | 1, Max Resolution 4096×2304 @60Hz   |           |           |                        |           |
| Ethernet         | LAN              | 2, 10/100/1000 Mbps, Intel I211     |           |           |                        |           |
| IO Interface     | USB              | 2×USB 3.0, 4×USB 2.0                |           |           |                        |           |
|                  | COM              | 6                                   |           |           |                        |           |
|                  | CAN              | 2                                   |           |           |                        |           |
|                  | GPIO             | 16                                  |           |           |                        |           |
|                  | High-speed IO    | 33, provided by the integrated FPGA |           |           |                        |           |
|                  | PCIe             | 4 × single-lane PCIe 3.0            |           |           |                        |           |
|                  | I2C              | 1                                   |           |           |                        |           |
|                  | I2S              | 1                                   |           |           |                        |           |
|                  | SPI              | 1, audio                            |           |           |                        |           |
|                  | TPM              | TPM2.0                              |           |           |                        |           |
|                  | SM               | 1                                   |           |           |                        |           |
|                  | Watchdog         | Supported by BIOS                   |           |           |                        |           |
|                  | Smart Fan        | System FAN (optional)               |           |           |                        |           |
| Operating System | OS               | Windows 10/11, Linux, Ubuntu        |           |           |                        |           |
| Power Supply     | Type             | DC                                  |           |           |                        |           |
|                  | Input Voltage    | 9-12V                               |           |           |                        |           |
| Environment      | Operating Temp.  | 0 ~ 60 °C                           |           |           |                        |           |
|                  | Storage Temp.    | -40 ~ 85 °C                         |           |           |                        |           |
|                  | Operating Humi.  | 10-95% @40 °C, non-condensing       |           |           |                        |           |
|                  | Storage Humi.    | 0-95% @60 °C, non-condensing        |           |           |                        |           |
| Dimensions       | Outside Dime.    | 85mm×82mm                           |           |           |                        |           |

## BLOCK DIAGRAM



## ORDER INFORMATION

| Product Model | CPU        | memory      | eMMC             | GbE | COM | CAN | USB | GPIO | HS IO | Temp.   |
|---------------|------------|-------------|------------------|-----|-----|-----|-----|------|-------|---------|
| WEC-S6305E    | 6305E      | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |
| WEC-S1115     | I3-1115G4  | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |
| WEC-S1115E    | I3-1115G4E | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |
| WEC-S1125     | I3-1125G4  | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |
| WEC-S1135     | I5-1135G7  | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |
| WEC-S1165     | I7-1165G7  | 4/8/16/32GB | 8/16/32/64/128GB | 2   | 6   | 2   | 6   | 16   | 33    | 0-60 °C |

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