

# iKERN-ARP690-FHD-7A600

## Industrial Portable Workstation



## Specifications

### Display

- Size: 21.5" 16:9
- Resolution: 1920 x 1080
- Coating: Anti-reflection Tempered Glass
- Backlight: LED

### CPU

- Intel® Core™ i3/i5/i7/i9/Pentium/Celeron 12th/13th/14th Generation:

|          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|
| i9-14900 | i7-14700 | i5-14500 | i3-14100 | i9-13900 | i7-13700 | i5-13500 | i3-13100 |
| 5.8 GHz  | 5.4 GHz  | 2.6 GHz  | 3.5 GHz  | 5.6 GHz  | 5.2 GHz  | 2.5 GHz  | 3.4 GHz  |
| i9-12900 | i7-12700 | i5-12500 | i3-12100 | G6900E   | G7400E   |          |          |
| 5.1 GHz  | 4.9 GHz  | 3.0 GHz  | 3.3 GHz  | 3.6 GHz  | 3.0 GHz  |          |          |

### Memory

- 4x 288-pin DIMM sockets
- Supports up to 128GB DDR4 3200 MHz, unbuffered, None ECC or ECC

### Chipset

- Intel® W680

### Graphic

- Integrated in CPU Intel® UHD Graphics 770 / 730 / 710  
Support DirectX 12, OpenGL 4.5, OpenCL 2.1, Triple View
- Video ports: HDMI, Display Port (Occupied by Chassis Display), VGA
- DP++ 1.4a: resolution up to 4096x2304 @ 60Hz
- HDMI 2.0b: resolution up to 4096x2160 @ 60Hz
- VGA: resolution up to 1920x1200 @ 60Hz

### Ethernet

- 1x Intel® i225LM 2.5 Gigabit Ethernet Controller, supports vPro
- 2x Intel® i225LM/i225V 2.5 Gigabit Ethernet Controller

### Storage / Drive Bays / Slots

- 6x 5.25"
- 1x Slim Optical Drive Bay (optional pre-assembled with DVDRW)
- 1x 2260/2280/22110 M.2 M-Key (PCIe x4 Gen4), supports SSD

### RAID / SATA

- 8x SATA 3.0 (Support RAID 0/1/5/10)

### Expansion Slots

- 2x PCIe x16 Gen 4 (1 x16 signal or 2 x8 signal)
- 2x PCIe x4 Gen 4
- 1x PCIe x4 Gen 3
- 2x PCI 32-bit/33 MHz
- 1x 3042/3052 M.2 B-Key (supports LTE/5G)
- 1x 2230 M.2 E-Key (supports CNVi)

### Rear I/O

- 1x DP, 1x HDMI, 1x VGA, 3x RJ45 LAN, 2x DB9 RS232/422/485
- 5x USB 3.2 Gen2, 1x USB 3.2 Gen2x2 Type-C, Line-in/out, Mic-in

### Other Internal Connectors / Functions

- 4x RS232, 2x USB 2.0, 2x USB 3.2 Gen1, 1x Thunderbolt header
- 1x 16-bit GPIO, TPM 2.0, 1x PS/2 header

### Power Supply

- Power input: 600W, 100-240V AC 50~60 Hz

### Mechanical

- Aluminum Portable Chassis with rubber corners and handle
- Industrial multi-language Keyboard with Touchpad
- Power / Reset Button in front

### Dimensions

- Dimension (W x H x D mm): 524 x 372 x 226 mm
- Weight: 15 kg

### Environment

- Operating Temperature: 0°C to 50°C
- Storage Temperature: -20°C to 70°C
- Humidity: 10 ~ 90%, non-condensing

### Certifications

- CE

### Operating System Support

- Windows 10 / 11 Pro / Windows 10 IoT LTSC / 11 IoT LTSC

### Ordering Information

#iKERN-ARP690-FHD-7A600