



# ULTRA

DIGITAL TECHNOLOGY UDT

## التراف ديجيتال تكنولوجي

### Industrial Fanless Solutions

Fan less Box PC  
Mini-ITX Systems  
Panel PC  
Rugged Tablet panel

### Industrial Ethernet Switch

Un-Managed switch  
Managed switch  
Industrial POE

### Integrated Systems

Control Rooms  
Video wall architecture

61 عمارات رابعة الاستثماري بجوار التأمينات الاجتماعية - مدينة نصر - القاهرة

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# Fanless Box PC

## ULT-2230E-T-C4 Intel Apollo Lake

Fanless Box PC with Intel Apollo Lake Pentium N4200, Quad-Core 1.1GHz, Celeron N3350 Dual-Core 1.1GHz CPU  
Dual SO-DIMM, Dual Channel DDR3L 1867MHz, up to 16GB system memory  
VGA/HDMI, 2LAN, 2USB3, 4USB2, 4COM, Wide 9-36V DC-IN  
TD-C4: N4200 QC, Dual Intel GB LAN, 4COM, 2USB3  
4USB2, 2xMini-PCle Full-size  
TL-C4: N3350 DC, Dual Intel GB LAN, 4COM, 2USB3  
4USB2, 2xMini-PCle Full-size  
Certification CE/FCC Class B



## ULT-2310E-T-C4 Intel Haswell

Embedded Fanless Box PC  
Intel Haswell ULT Core i7/i5/i3 CPU  
SO-DIMM, Single Channel DDR3L 1333/1600MHz, up to 8GB system memory  
2HDMI, 2LAN, 4USB3, 4USB2, 4COM, Wide 9-36V DC-IN  
TP-C4: Core i7-4650U, 2LAN, 4COM, 4USB3, 4USB2  
TM-C4: Core i5-4300U, 2LAN, 4COM, 4USB3, 4USB2  
TV-C4: Core i3-4010U, 2LAN, 4COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



## ULT-2330E-T-C4 Intel Skylake-U

Fanless Box PC with Intel Skylake-U Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2133MHz, up to 32GB system memory  
2DP, 2LAN, 4USB3, 4USB2, 4COM, Wide 12-36V DC-IN  
TP-C4: i7-6600U Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
2xMini-PCle Full-size  
TM-C4: i5-6300U, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
2xMini-PCle Full-size  
TV-C4: i3-6100U, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
2xMini-PCle Full-size  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



# Fanless Box PC

## ULT-3091E-T Intel 7th/6th Skylake-S H110

Fanless Box PC w/ Intel H110 Chipset, Intel Kblake-S, Skylake-S Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2133MHz, up to 32GB system memory  
2HDMI, 2LAN, 4USB3, 4USB2, 4COM, DC-IN 12V / 19-24V  
T-7T: i7-7700T CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
PClex4 Expansion  
T-5E: i5-6500TE CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
PClex4 Expansion  
T-3E: i3-6100TE CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
PClex4 Expansion  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



## ULT-3050E-T Intel Baytrail

Fanless Box PC with Intel BayTrail Celeron J1900 CPU  
Dual SO-DIMM, Dual Channel DDR3L 1333MHz, up to 8GB system memory  
VGA/HDMI, 2LAN, 2USB3, 6USB2, 3-5COM, DC-IN 9V-19V  
TD: J1900 CPU, VGA/HDMI, 2LAN, 3COM, 2USB3, 6USB2  
PClex1 Expansion  
0°C ~ 60°C harsh operation environment  
Certification CE/FCC Class B



## ULT-3295E-T Intel 7th/6th Skylake-S H110

Fanless Box PC w/ Intel H110 Chipset, Intel Kblake-S, Skylake-S Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2133MHz, up to 32GB system memory  
VGA/HDMI/DP, 2LAN, 4USB3, 4USB2, 4COM, DC-IN 12-24V  
T-7T: i7-7700T CPU, Dual Intel GB LAN, 2COM, 4USB3, 4USB2  
PClex16 Expansion  
T-5E: i5-6500TE CPU, Dual Intel GB LAN, 2COM, 4USB3, 4USB2  
PClex16 Expansion  
T-3E: i3-6100TE CPU, Dual Intel GB LAN, 2COM, 4USB3, 4USB2  
PClex16 Expansion  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



# Fanless Box PC

## ULT-2N00E-T

Mini-ITX Fanless Box PC with Intel BayTrail Celeron J1900 CPU  
Dual SO-DIMM, Dual Channel DDR3L 1333MHz, up to 8GB system memory  
Supports 4x LAN, HDMI, 6COM, USB3/USB2  
Optional expansion features by Advantech iDoor modules  
27D24DI: 24-Channel isolated Digital I/O, 16DI/8DO  
26R2XX: 2-Port Hilscher netX100 FieldBus mPCIe, EtherCAT, EtherNet/IP,  
Sercos III, PROFINET, POWERLINK  
For more by G2P1-C2 to offer dual isolated GbE LAN ports,  
up to 15.4W at 48V per PoE port  
DC-IN 12V



## ULT-2V10E-T

The first AMD-Powered 4x Display Port Box PC  
Mini-ITX Fanless System with ADM Ryzen CPU  
4x DP, 2LAN, 6COM, 2USB3/7USB2, M.2 Key E, M  
12V/19 ~28V DC-Input



## ULT-2056E-T Intel Apollo Lake

Mini-ITX Fanless Box PC w/ Intel Apollo Lake, Braswell Processors  
x 204-pin SO-DIMM, System Memory up to 16GB 2  
VGA/HDMI, 2LAN, 3COM, 4USB3/4USB2  
0°C ~ 60°C harsh operation environment  
Certification CE/FCC Class B



## ULT-2050E-T Intel Baytrail

Fanless Box PC with Intel BayTrail Celeron J1900 CPU  
Dual SO-DIMM, Dual Channel DDR3L 1333MHz, up to 8GB system memory  
VGA/HDMI, 2LAN, 2USB3, 6USB2, 3-5COM, DC-IN 9V-19V  
TDC3: J1900 CPU, VGA/HDMI, 2LAN, 3COM, 2USB3, 6USB2  
0°C ~ 60°C harsh operation environment  
Certification CE/FCC Class B



# Fanless Box PC

## ULT-2091E-T Intel 7th/6th Skylake-S H110

Fanless Box PC w/ Intel H110 Chipset, Intel Kblake-S, Skylake-S Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2133MHz, up to 32GB system memory  
2HDMI, 2LAN, 4USB3, 4USB2, 4COM, DC-IN 12V / 19-24V  
T-7T: i7-7700T CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
T-5E: i5-6500TE CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
T-3E: i3-6100TE CPU, Dual Intel GB LAN, 4COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



## ULT-2360E-T Intel 8th Whiskey Lake-U

Fanless Box PC with Intel 8th Whiskey Lake-U Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2400MHz, up to 64GB system memory  
DP/HDMI, 2LAN, 4USB3.1(Gen2), 4USB2, 4COM, 12-24V DC-IN  
TH: i7-8665UE, DP/HDMI, 2LAN, 4USB3.1, 4USB2, 4COM,  
M.2 B/E/M-Key  
TE: i5-8365UE, DP/HDMI, 2LAN, 4USB3.1, 4USB2, 4COM,  
M.2 B/E/M-Key  
TL: i3-8145UE, DP/HDMI, 2LAN, 4USB3.1, 4USB2, 4COM,  
M.2 B/E/M-Key  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



## ULT-2345E-TUE/65E-TUE Intel 8th Whiskey Lake-U

Fanless Box PC with Intel 8th Whiskey Lake-U i5-8365UE / i5-8265U / i3-8145UE CPU  
Dual SO-DIMM, Dual Channel DDR4 2400MHz, up to 32GB system memory  
2HDMI, 2LAN, 4USB3.1(Gen2), 2/6USB2, 4COM, Wide 9V-36V DC-IN  
1x SATA 3.0, 6Gb/s for 2.5" SATA HDD/SSD , 1x M.2 M-Key PCIe4 / SATA  
1 x M.2 E-Key for for ULT (WiFi/BT), 1 x Mini-PCIe, 3G SIM slot  
1 x GPIO 8 bits interace board ( TD/ UD, 2 x USB2.0 )  
4 x USB 2.0 on front bezel (UE/ TU/ TUE 6 x USB 2.0 )  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



# Fanless Box PC

## ULT-3294E-T two PCIe8 Intel 7th/6th Q170

Fanless Box PC two PCIe8, w/ Intel Q170 Chipset, Intel Kblake-S, Skylake-S Core i7/i5/i3 CPU  
Dual SO-DIMM, Dual Channel DDR4 2133MHz, up to 32GB system memory  
VGA/HDMI/DP, 2LAN, 4USB3, 4USB2, 4COM, DC-IN 12V  
T-7T: i7-7700T CPU, two PCIe8, 2LAN, 2COM, 4USB3, 4USB2  
T-5E: i5-6500TE CPU, two PCIe8, 2LAN, 2COM, 4USB3, 4USB2  
T-3E: i3-6100TE CPU, two PCIe8, 2LAN, 2COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment



## ULT-2031E-T Intel 9th/8th Coffee Lake-S H310

Fanless Box PC w/ Intel 9th/8th Core i7/i5/i3 CPU (Coffee Lake-S)  
Dual SO-DIMM, Dual Channel DDR4 2666MHz, up to 32GB system memory  
VGA/HDMI/DP, 2LAN, 4USB3, 8USB2, 4COM, DC-IN +12V/ +19V/ +24V  
T-7T: i7-8700T CPU, Dual Intel GB LAN, 1COM, 4USB3, 4USB2  
T-5T: i5-8500T CPU, Dual Intel GB LAN, 1COM, 4USB3, 4USB2  
T-3T: i3-8100T CPU, Dual Intel GB LAN, 1COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment



## ULT-3031E-T Intel 9th/8th Coffee Lake-S H310

Fanless Box PC w/ Intel 9th/8th Core i7/i5/i3 CPU (Coffee Lake-S)  
Support one PCIe16 expansion with 2-slot space  
Dual SO-DIMM, 2-Channel DDR4 2666MHz, up to 32GB system memory  
VGA/HDMI/DP, 2LAN, 4USB3, 4USB2, 4COM, DC-IN +12V/+19V/+24V  
T-7T-M0-00P0: i7-8700T CPU, one PCIe16 w/2-slot, 2LAN, 1COM, 4USB3, 4USB2  
T-5T-M0-00P0: i5-8500T CPU, one PCIe16 w/2-slot, 2LAN, 1COM, 4USB3, 4USB2  
T-3T-M0-00P0: i3-8100T CPU, one PCIe16 w/2-slot, 2LAN, 1COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment



## ULT-2221E-T Intel 10th Comet Lake-S H420E

(Fanless Box PC w/ Intel 9th/8th Core i9/i7/i5/i3 CPU (Comet Lake-S)  
Dual SO-DIMM, 2-Channel DDR4 2666MHz, up to 64GB system memory  
VGA/HDMI/DP, 2LAN, 4USB3, 4USB2, 4COM, DC-IN +12V~ 24V  
T-9E: i9-10900TE CPU, VGA/HDMI/DP, 2LAN, 4COM, 4USB3, 4USB2  
T-7E: i7-10700TE CPU, VGA/HDMI/DP, 2LAN, 4COM, 4USB3, 4USB2  
T-5E: i5-10500TE CPU, VGA/HDMI/DP, 2LAN, 4COM, 4USB3, 4USB2  
TD-5E: i5-10500TE CPU, 2DP/HDMI, 2LAN, 4COM, 4USB3, 4USB2  
0°C ~ 50°C harsh operation environment



# Fanless Box PC

## ULT-1210E-TM-C2/C4 Intel Baytrail

Fanless Box PC with Intel BayTrail Celeron N2930 Quad-Core  
1.83GHz CPU  
VGA/HDMI, 2LAN, 2USB3, 6-2USB2, 2-4COM, Wide 9-36V DC-IN  
TM-C2: 2COM, 2USB3, 6USB2  
TM-C4: 4COM, 2USB3, 2USB  
Certification CE/FCC Class B



## ULT-2210E-TD-C4 Intel Baytrail

Fanless Box PC with Intel BayTrail Celeron NJ1900 Quad-Core  
2.0GHz CPU  
VGA/HDMI, 2LAN, 2USB3, 4USB2, 4COM, Wide 9-36V DC-IN  
TD-C4: 4COM, 2USB3, 4USB2  
0°C ~ 50°C harsh operation environment  
Certification CE/FCC Class B



## ULT-2220E-T-C4 Intel Braswell

Fanless Box PC with Intel Celeron Braswell N3160 Quad-Core  
1.6GHz CPU  
VGA/HDMI, 2LAN, 2USB3, 4USB2, 4COM, Wide 12-24V DC-IN  
T-C4: N3160, Dual Intel GB LAN, 4COM, 2USB3, 4USB2  
Mini-PCIe Full-size  
Certification CE/FCC Class B



## ULT-3091E-T Intel H110 (Skylake-S)

Socket LGA1151 for Intel® Core i7 / i5 / i3 (Skylake-S)  
Intel® Gen9 Intel® Graphics DX 11/12, OGL4.3/4.4  
Supports Dual Channel DDR4 2133MHz, 2 x SO-DIMM,  
up to 32GB system memory  
2 x HDMI, 4 xUSB 3.0, 4 x USB 2.0, 2 x SATA3, 2 x COM  
1 x Mini-PCIe, 1 x PCIe x4 Slot(for one low profile add-on card) ,1 x mSATA  
Gigabit LAN : 2 x Intel® Lan  
12V / 19~24V DC-in  
Certification: CE/FCC Class B



## ULT-3295E-T Intel H110 (Skylake-S)

Socket LGA1151 for Intel® Core i7 / i5 / i3 / Celeron® (Skylake-S)  
Intel® Gen9 Intel® Graphics DX 11/12, OGL4.3/4.4  
Supports Dual Channel DDR4 2133MHz, 2 x SO-DIMM,  
up to 32GB system memory  
1 x VGA/HDMI/DP, 4 xUSB 3.0, 4 x USB 2.0, 2 x SATA3, 2 x COM  
1 x Mini-PCIe, 1 x PCIe x16 Slot  
(for one PCIe x16 half-size add-on card) ,1 x mSATA  
Gigabit LAN : 2 x Intel® Lan  
12V ~24V DC-in  
Certification: CE/FCC Class B





## ULT-121E-T

12.1" TFT XGA, 800 x 600, 300 cd/m2 Luminance, 50K hrs/LED  
12.1" TFT XGA, 1024 x 768, 400 cd/m2 Luminance, 50K hrs/LED  
Intel Atom D2550 Dual Core 1.86GHz CPU, memory up to 4GB  
Dual independent display by VGA  
COM1 by RS-232/422/485, COM2 by RS-232 with power 5V/12V  
6 x USB( USB 3.0 and USB 2.0)  
Supports 2.5" SATA HDD  
Flexible mounting solutions by Panel / VESA 75/ Wall Mount  
Wide Range DC +12V ~ +24V DC input by DC Jack  
-10°C ~ 70°C harsh operation environment



## ULT-150E-T

15" TFT XGA, 1024 x 768, 300 cd/m2 Luminance, 50K hrs/LED  
Intel Atom D2550 Dual Core 1.86GHz CPU, memory up to 4GB  
Dual independent display by VGA  
COM1 by RS-232/422/485, COM2/3/4 by RS-232 with power 5V/12V  
4 x USB( 2 x USB 3.0 and 2 x USB 2.0)  
Supports 2.5" SATA HDD  
Flexible mounting solutions by Panel / VESA 75/ Wall Mount  
Wide Range DC +12V ~ +24V DC input by DC Jack  
-10°C ~ 70°C harsh operation environment



## ULT-185E-T

18.5" TFT XGA, 1366 x 768, 300 cd/m2 Luminance, 50K hrs/LED  
Intel Atom D2550 Dual Core 1.86GHz CPU, memory up to 4GB  
Dual independent display by VGA  
COM1 by RS-232/422/485, COM2 by RS-232 with power 5V/12V  
8 x USB( 2 x USB 3.0 and 6 x USB 2.0)  
Supports 2.5" SATA HDD  
Flexible mounting solutions by Panel / VESA 75/ Wall Mount  
Wide Range DC +12V ~ +24V DC input by DC Jack  
-10°C ~ 70°C harsh operation environment



### ULT-10" Fully Rugged Tablet with 4th Generation Intel® Core™ i Processor

- MIL-STD-810G and IP65 certified, can withstand drops of up to 4ft
- 10.1" HD high-brightness, multi-touch, Gorilla Glass panel with digitizer
- 4th generation Intel® Core™ i processor supports Windows
- Built-in 4G LTE, WLAN (802.11 a/b/g/n/ac), BT4.0, and GPS modules with Beidou/GLONASS support
- Hot-swappable battery provides up to 11 hours operation
- Built-in dual cameras, 1D/2D barcode scanner, and NFC
- Rich peripherals with vehicle docking station, desk docking station, and extension module support



# Industrial Ethernet Switches

## Unmanaged Ethernet Switches

With no setup required, Advantech's unmanaged Ethernet switches are truly plug-and-play and are designed for use in demanding industrial environments.



## Managed Ethernet Switches

Managed Ethernet switches allow users to expand their industrial network quickly and efficiently, while their rugged industrial-grade design assures reliability and stability. Our managed



## Industrial PoE Switches & Solutions

PoE switches and solutions provide multiple switch ports with PoE injector functionality with up to 30W per port for powering IEEE802.3af/at-compliant devices (PD) via an Ethernet cable, eliminating the need for additional wiring. With PoE injector support, all ports are available to contribute to delivering a centralized power supply for automation applications. Furthermore, our PoE switches come with a compact metal housing with an IP30 rating, making them suitable for use in dusty



## Managed Ethernet Switches ( Entry-Level )

EKI-5500/5600 Series entry level managed switches are the best deal offer for your Ethernet connections.



# Industrial Ethernet Switches

## ULT-EN50155 Ethernet Switches

With an M12 connector design, Advantech's EN50155 Ethernet switches are designed to withstand severe shock and vibration, making them reliable for uninterrupted rail communication in rolling



## ULT-IEC61850-3 Ethernet Switches

offers the highest quality IEC61850-3 certification industrial ethernet switches for the Power and Energy Automation applications. With their durable, robust, and 24 port switch design,



## Media Converters

Industrial Ethernet Media Converters are more compact and robust devices designed to convert Gigabit Ethernet or Fast Ethernet networks into Gigabit or Ethernet fiber optic networks by



## VDSL Extenders

offers End-to-End solutions ( VDSL extenders and lan extenders) with high-speed, long reach ethernet extender and Power over Ethernet technology to extend the Ethernet service



## Intelligent Transportation Systems ( ITS )



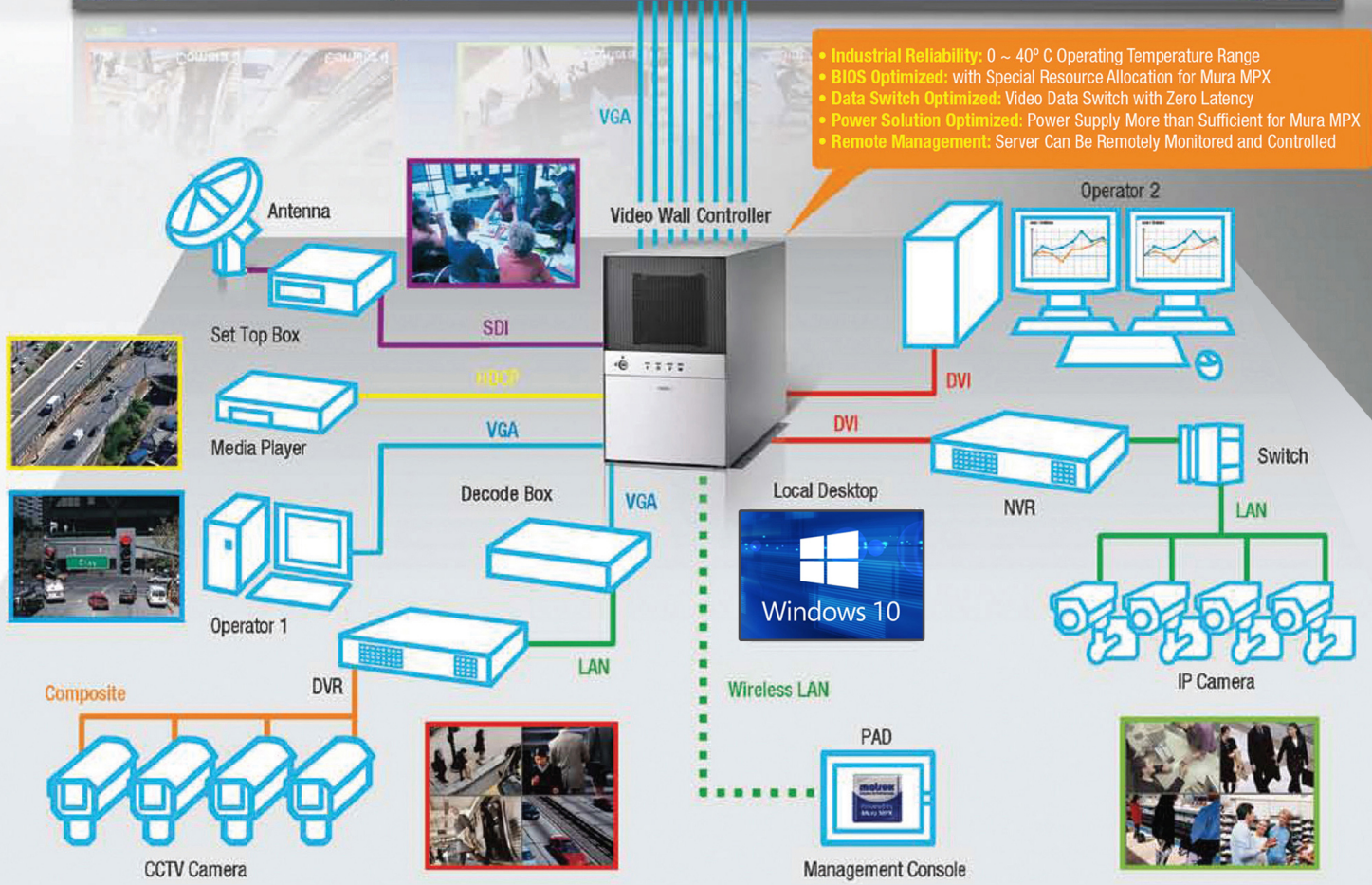
## Mobile Data Terminals Take To The Air



# Video Wall Architecture



- **Industrial Reliability:** 0 ~ 40° C Operating Temperature Range
- **BIOS Optimized:** with Special Resource Allocation for Mura MPX
- **Data Switch Optimized:** Video Data Switch with Zero Latency
- **Power Solution Optimized:** Power Supply More than Sufficient for Mura MPX
- **Remote Management:** Server Can Be Remotely Monitored and Controlled



CCTV Camera

Management Console

IP Camera