CloudHMI Cloud Human Machine Interface

cmT *SERIES*

WE!NTEK

CloudHMI

Breaking through the traditional architecture of HMI, we introduce an innovative HMI architecture, CloudHMI. The CloudHMI splits the traditional HMI architecture into the server device and the display device. The server device, cMT-SVR connects with a PLC and proceeds protocol conversion, data logging, event logging, recipe, database maintenance, macro commands execution, etc. The visualization function is perfectly integrated into cMT-iV5 or Tablet PC with the powerful CloudHMI software.
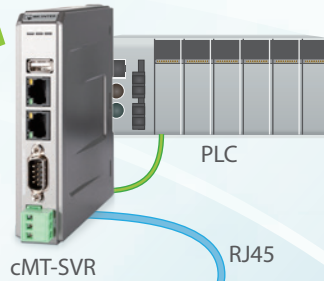
Not only do we inherit the advantages of traditional HMI and the motto of "**Make Things Easy**," we also lead the trend of infinite innovation in HMI technology - **Lead HMI to the Cloud**.

EasyBuilder Pro

via 1G Ethernet

PLC

cMT-SVR

RJ45

► Two easy steps to startup CloudHMI with cMT-iV5

1 Edit a project with **EasyBuilder Pro** on PC and download the project to the **cMT-SVR** via Ethernet.

2 Upload the project from the cMT-SVR to the **cMT-iV5** via **Ethernet**.

Wireless Access Point

Via 1G Ethernet

► Three easy steps to startup CloudHMI with Tablet PC

1 Edit a project with **EasyBuilder Pro** on PC and download the project to the **cMT-SVR** via Ethernet.

2 Download **CloudHMI APP** to your Tablet PC.

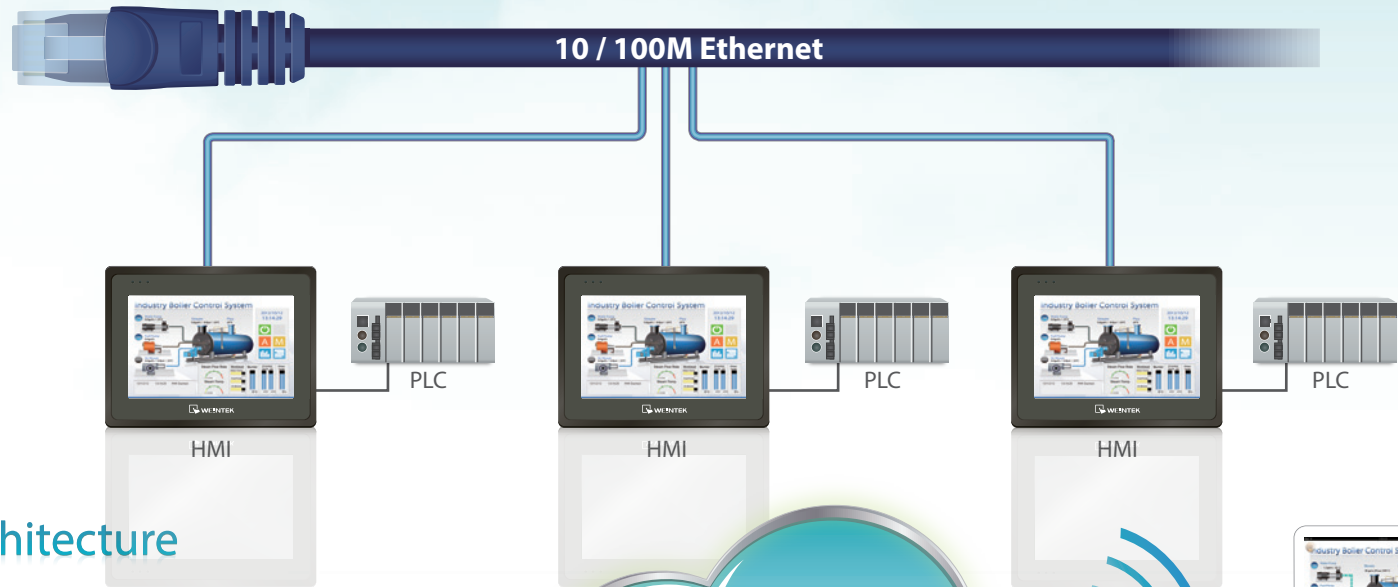**3** Upload the project from the cMT-SVR to the Tablet PC via **Wi-Fi**.

CloudHMI

Tablet PC

cMT-iV5

▶ Traditional HMI Architecture

Each machine is equipped with one HMI.
If any of the HMIs stops working, the machine will be out of service.

10 / 100M Ethernet

PLC

PLC

PLC

HMI

HMI

HMI

▶ CloudHMI Architecture

Each machine is equipped with one cMT-SVR which can be monitored and controlled by several touch panels such as cMT-iV5s or Tablet PCs. If one of the cMT-iV5s / Tablet PCs is out of service, the other touch panel can take over the operation of cMT-SVR instantly.
This way greatly improves the reliability of CloudHMI.

WiFi / 1G Ethernet

Tablet PC

cMT-iV5

PLC

PLC

PLC

cMT-SVR
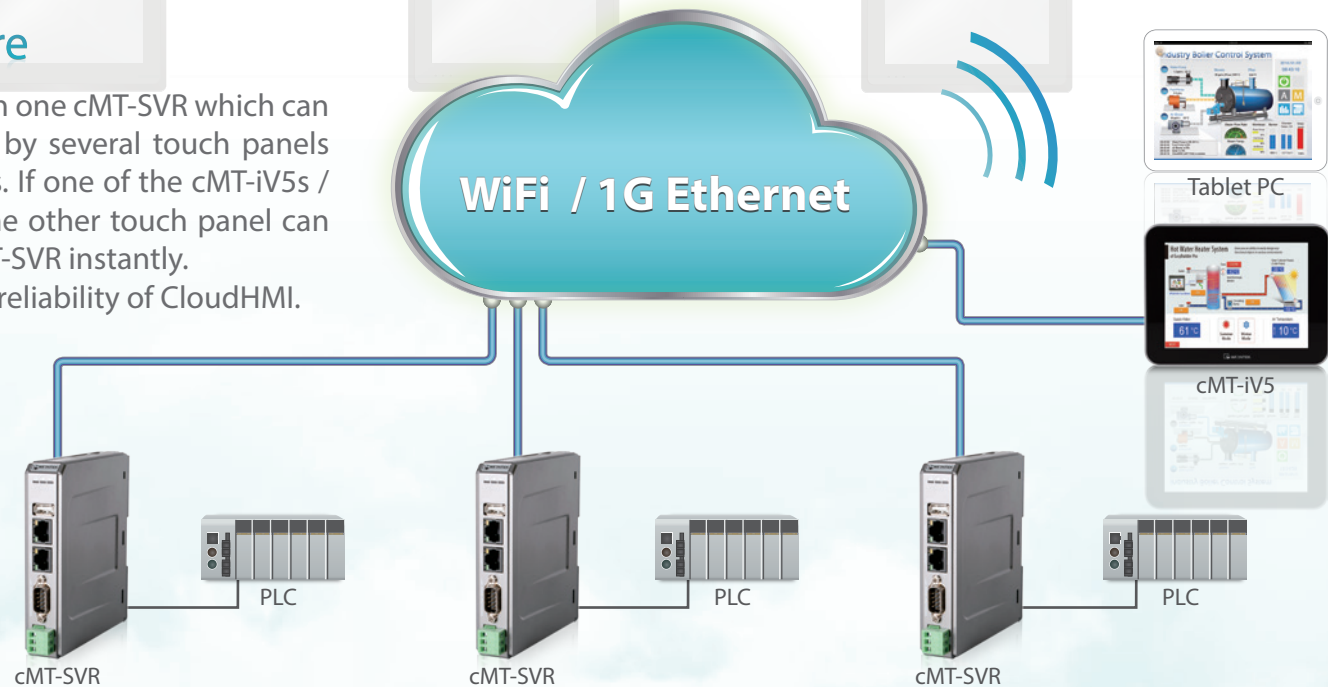
cMT-SVR

cMT-SVR

cMT-iV5

▶ Breakthrough the traditional architecture of one machine terminal with one touch panel

The connection between cMT-SVR and cMT-iV5 via 1G Ethernet constructs a powerful multiprocessing architecture of HMI. The cMT-SVR can flexibly combine with cMT-iV5 and iPad to enhance its operational efficiency.

cMT-iV5
Ethernet

cMT-SVR

PLC

| Integration | Distributed | Flexible combination |
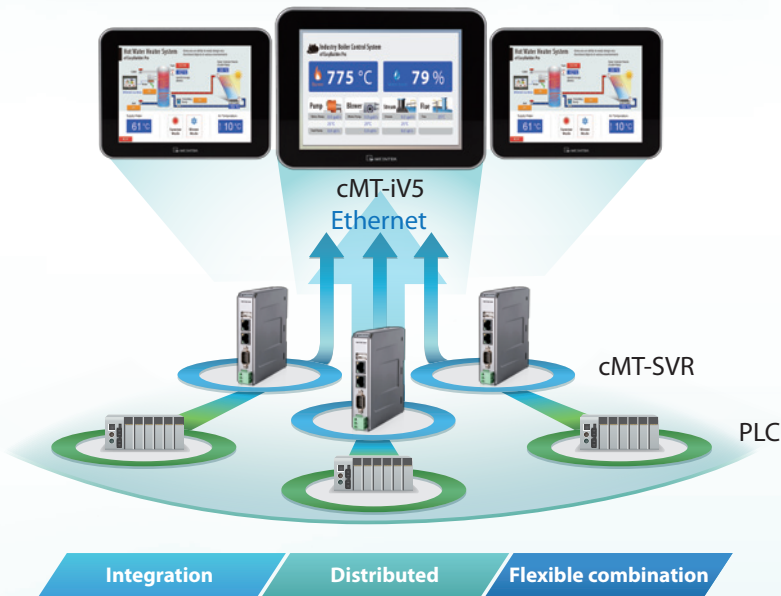
▶ The monitoring center of HMIs

Integrated with all cMT-SVRs based on the distributed architecture, the cMT-iV5 can monitor all the operational status of machines at the same time.
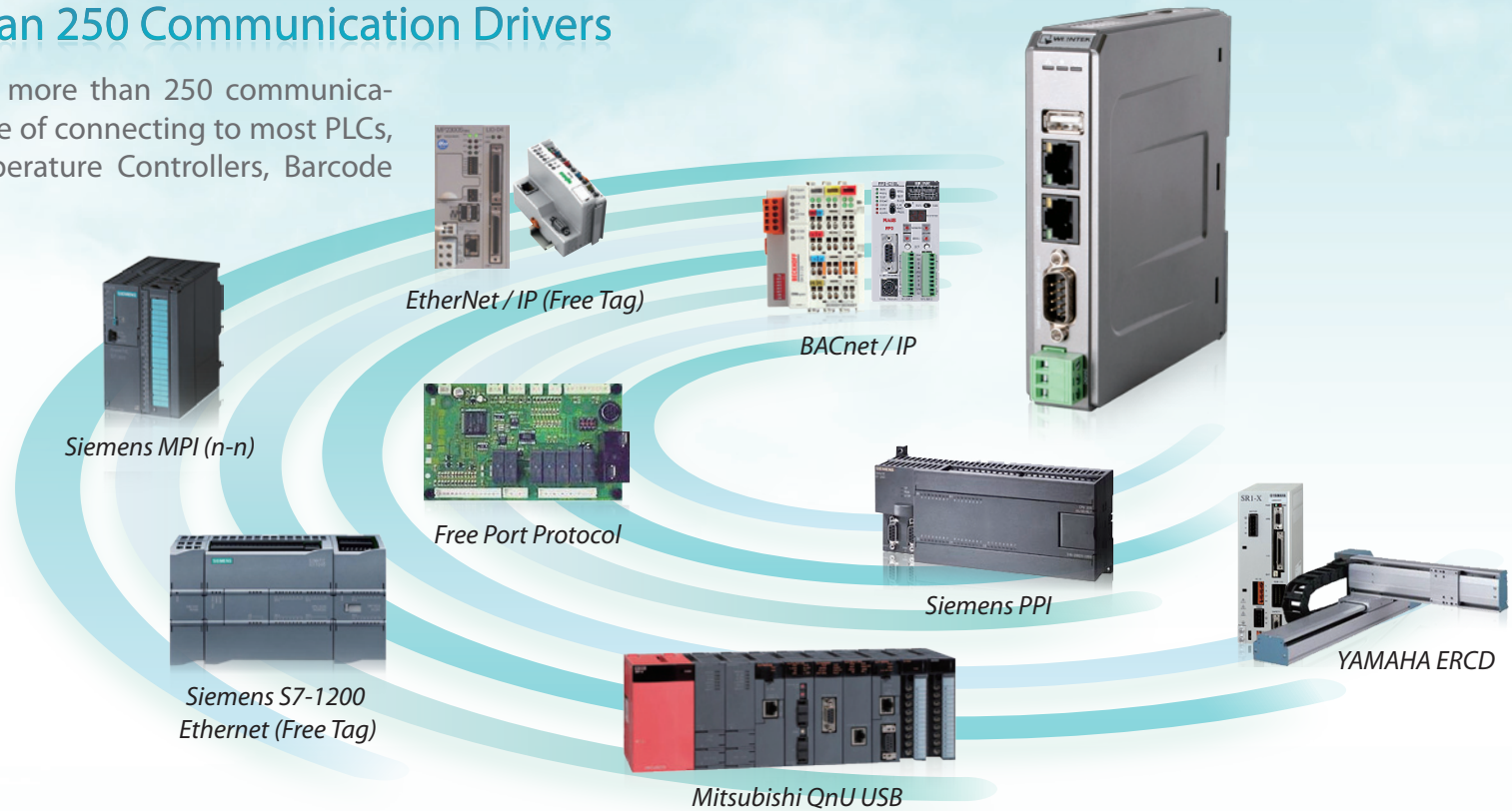
▶ Perfect integration of hardware and software brings the ultra-high performance of cMT-iV5

With 9.7" high resolution 1024x768 LCD and Cortex A9 1GHz Dual-Core processor, cMT-iV5 boasts excellent graphics performance and perfectly monitors the operational status of machines.

Cotex A9 CPU

Resolution 1024 x768

Touch Echo Sound

► Support more than 250 Communication Drivers

The cMT-SVR supports more than 250 communication drivers. It is capable of connecting to most PLCs, Servos, Inverters, Temperature Controllers, Barcode Scanners, etc.

EtherNet / IP (Free Tag)

BACnet / IP

Siemens MPI (n-n)

Free Port Protocol

Siemens S7-1200 Ethernet (Free Tag)

Siemens PPI

YAMAHA ERCD

Mitsubishi QnU USB

► Unprecedented operating experience

The cMT-iV5 is equipped with a projective capacitive touch panel. The cover of projective touch panel is a tempered glass with 7H hardness and it is resisted to scratch. The cMT-iV5 provides the Multi-touch functionality with high positioning accuracy. This feature makes you operate cMT-iV5 extremely intuitively and easily just like using an iPad.
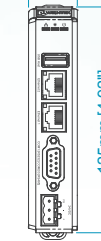
Specification

cMT-SVR-100   cMT-iV5

		cMT-SVR-100	cMT-iV5
Display	Project Screen Size	1024x748 or 768x1004 (Portrait mode)	N/A
	Display	N/A	9.7" TFT
	Resolution	N/A	1024 x 768
	Brightness (cd/m²)	N/A	350
	Contrast Ratio	N/A	500:1
	Backlight Type	N/A	LED
	Backlight Life Time	N/A	>30,000 hrs.
	Colors	N/A	262K
Touch Panel	Type	N/A	Tempered Glass, Capacitive Type
	Accuracy	N/A	Active Area Length(X)±2%, Width(Y)±2%
Memory	Storage (MB)	256 MB	512 MB
	RAM	256 MB	1 GB
Processor		32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A9 1GHz
I/O Port	SD Card Slot	SD/SDHC	N/A
	USB Host	USB 2.0 x 1	N/A
	USB Client	N/A	N/A
	Ethernet	10/100/1000M x 2	10/100/1000M x 1
	COM Port	COM1 RS-232, COM2 RS-485 2W/4W, COM3 RS-485 2W	N/A
	CAN Bus	N/A	N/A
	HDMI	N/A	N/A
	Audio Output	N/A	Built-in Mono Speaker
	Video Input	N/A	N/A
RTC		Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in
	Power Consumption	230mA@24VDC	900mA@24VDC
	Voltage Resistance	500VAC (1 min)	500VAC (1 min)
	Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	Enclosure	Plastic	Plastic
	Dimensions WxHxD	130 x 115 x 27mm	257.2 x 199.7 x 32.7mm
	Panel Cutout (mm)	N/A	248.5 x 191mm
	Weight (kg)	Approx. 0.18 kg	Approx. 0.76 kg
	Mount	35mm DIN rail mounting	Panel mount, VESA mount 75 x 75mm
Environment	Protection Structure	IP20	NEMA4 / UL Type 1 (Indoor) / IP65
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	-20° ~ 55°C (-4° ~ 131°F)	0° ~ 50°C (32° ~ 122°F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked
	UL	cULus Listed	cULus Listed
Language	Display	N/A	English, French, Italian, Spanish, Russian, Simplified Chinese, Traditional Chinese, Korean, German
	Input Methods	N/A	English, French, Italian, Spanish, German, Russian, Pinyin, Zhuyin
Software		EasyBuilder Pro	N/A

* Specifications subject to change without notice.

cMT-SVR-100

Top View

27mm [1.06"]   125mm [4.92"]
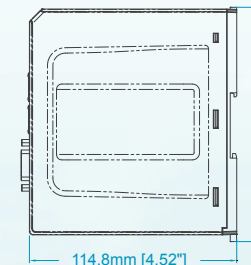
Front View

Bottom View

129.73mm [5.11"]   114.8mm [4.52"]

Side View

cMT-iV5

257.2mm [10.13"]   199.7mm [7.86"]

Front View

247.7mm [9.75"]   190.2mm [7.49"]
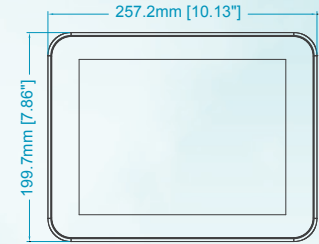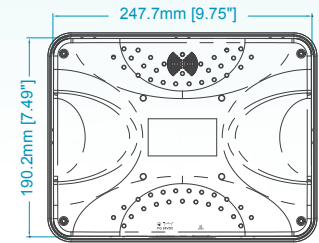
Rear View

32.7mm [1.29"]   7.9mm [0.31"]

Bottom View

248.5mm [9.78"]   R16mm [R0.63"]   191mm [7.52"]

248.5mm [9.78"] W x 191mm [7.52"] H

Cutout Dimensions

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