

UniStream® 7"

I/O Options

Number of I/Os (Built-in, local and remote)	Up to 2,048 I/O points
Built-in I/O or Uni-COM Modules	According to model and add-on model (see table below)
Local Uni-I/O™ Modules	To add local I/Os, use UAG-CX I/O Expansion Adapters. These adapters provide the connection point for standard UniStream Uni-I/O™ modules
Remote I/O Expansion	Use EX-RC1 adapters to further extend the number of I/Os ¹

Bit Operation	0.13 µs
Ladder Memory	1 MB
External Memory	microSD and USB Flash drive (up to 32GB)
Video	Show MPEG-4 videos on the HMI screen ²
Audio	Stereo MP3 filescreen ²
Power Supply	24VDC (B1 support 12V/24VDC)
Backup Battery	CR2032, Back-up RTC values, system data and retained tags

Communication

Ports	1 Ethernet • 1 USB host • 1 USB device for programming
Protocols	MODBUS, EtherNet/IP™, CANopen, SNMP, FTP, BACnet ² , RTSP, VNC, UniCAN, GSM (SMS, GPRS), KNX ² , Message Composer for 3 rd party protocols. SQL Client & Web Serverscreen ²

HMI Panel

Type	TFT, LCD, Touch HMI Panel
Size	7" (16:9)
Resolution	800x480 (WVGA)
Viewing Area Height x Width (mm)	Width x Height (mm) 154.08 x 85.92
Colors	65,536 (16bit)
Display Backlight Illumination	White LED

Environment

Protection	Front face : IP65/66, NEMA 4X Rear side: IP20, NEMA1
Operating Temperature	-20°C to 55°C (-4°F to 131°F)

UniStream 7" Built-in I/Os



		Inputs ¹				Outputs				
Article	Summary	Digital (Isolated)	HSC/Shaft-encoder *1	Analog	Temperature inputs, RTD/TC	Transistor *2 (Isolated)	PWM *2	Relay	Analog	Operating Voltage
US7-B5-B1 US7-B10-B1	No built-in I/Os	None	None	None	None	None	None	None	None	12/24VDC
US7-B5-TR22 US7-B10-TR22	10 Digital, 2 Analog Inputs, 2 Transistor outputs, npn, including 2 PWM outputs. 8 Relay outputs	10 Sink/Source	None	2 0-10V, 0-20mA, 4-20mA 12-bit	None	2 Sink (npn)	2 30kHz	8	None	24VDC
US7-B5-T24 US7-B10-T24	10 Digital, 2 Analog Inputs, 12 Transistor outputs, pnp, including 2 PWM outputs.	10 Sink/Source	None	2 0-10V, 0-20mA, 4-20mA 12-bit	None	12 Source (pnp)	2 3kHz	None	None	24VDC
US7-B5-RA28 US7-B10-RA28	14 Digital, including 2 HSC, 2 Analog Inputs, 2 Temperature inputs, 8 Relay outputs, 2 Analog outputs	14 Sink/Source	2 90kHz 32-bit	2 (isolated) 0-10V, 0-20mA, 4-20mA, 10-bit	2 (isolated) Thermocouple, PT100/NI100/NI120/ PT1000/NI1000	None	None	8	2 0-10V, 12-bit, ±10V 11-bit+sign 0-20mA, 4-20mA 12-bit	24VDC
US7-B5-TA30 US7-B10-TA30	14 Digital inputs, including 2 HSC, 2 Analog inputs, 2 Temperature inputs, 10 Transistor outputs, pnp, including 2 PWM outputs, 2 Analog outputs	14 Sink/Source	2 90kHz 32-bit	2 (isolated) 0-10V, 0-20mA, 4-20mA, 10-bit	2 (isolated) Thermocouple, PT100/NI100/NI120/ PT1000/NI1000	10 Source (pnp)	2 3kHz	None	2 0-10V, 12-bit, ±10V 11-bit+sign 0-20mA, 4-20mA 12-bit	24VDC
US7-B5-R38 US7-B10-R38	24 Digital inputs, including 4 HSC, 12 relay outputs	24 Sink/Source	4 90kHz 32-bit	2 0-10V, 0-20mA, 4-20mA 12-bit	None	None	None	12	None	24VDC
US7-B5-T42 US7-B10-T42	24 Digital inputs, including 4 HSC, 2 Analog inputs, 16 Transistor outputs, pnp, including 2 PWM outputs	24 Sink/Source	4 90kHz 32-bit	2 0-10V, 0-20mA, 4-20mA 12-bit	None	16 Source (pnp)	2 3kHz	None	None	24VDC

***Notes:**

- Note that the high-speed inputs are included in the total number of digital inputs.
- Note that the PWM outputs are included in the total number of transistor outputs.