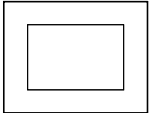


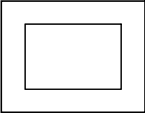
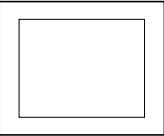
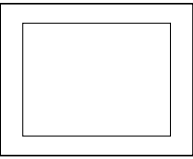
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Display	Version front	Screen diagonal Inch	Display area mm	Resolution Pixels	Communication interface	Type Order No.	Price See price sheet	Std. pack
XV200 Processor RISC CPU, 32-bit, 200 MHz OS, program und data memory 32 MB Display: 5.7" FSTN-LCD (monochrome display), 256 grayscales or 5.7" CSTN-LCD (color display), 256 colors Integrated interfaces depending on type: Ethernet, USB Device, communication interface(s) Software: Visualization = GALILEO, PLC = <i>MXpro</i> Basic device with 140 license points enables communication to the value of 40 points via an onboard interface. Additional communication options and PLC functionality → Licensing. WinCE license required → Accessories. Compact Flash™ required → Accessories.								
								
Resistive touch, 5.7" FSTN-LCD (monochrome display), 256 grayscales	Standard film	5.7	115 × 86	320 x 240	CAN	XV-230-57CNN-1-10 85 28 200010		1 off
	Standard film	5.7	115 × 86	320 x 240	Profibus ¹⁾	XV-230-57MPN-1-10 85 28 200050		
	Standard film	5.7	115 × 86	320 x 240	RS232	XV-232-57BAS-1-10 85 28 200000		
Resistive touch, 5.7" CSTN-LCD (color display), 256 colors	Standard film	5.7	115 × 86	320 x 240	CAN, RS232	XV-252-57CNN-1-10 85 28 200510		
	Standard film	5.7	115 × 86	320 x 240	Profibus ¹⁾ , RS232	XV-252-57MPN-1-10 85 28 200550		

Notes: 1) Possible protocols via Profibus: MPI, PPI, DP master

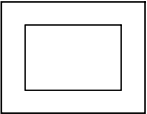
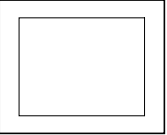
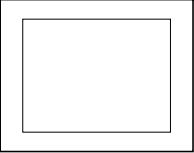
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Display	Version front	Screen diagonal	Display area	Resolution	Slots for communication modules	Type Order No.	Price	Std. pack
		Inch	mm	Pixels	Number		See price sheet	
XV400 Processor RISC CPU, 32-bit, 400 MHz OS, program und data memory 64 MB Display: 5.7" CSTN-LCD (color), 256 colors; 10.4"/12.1" TFT-LCD (color), adjustable: 65536 or 256 colors Integrated interfaces: Ethernet, RS 232, CAN, USB Host, USB Device Communication slots for communication modules Software: Visualization = GALILEO or EPAM ¹⁾ , PLC = MX ^{pro} Basic device with 140 license points enables communication to the value of 40 points via an onboard interface. Additional communication options and PLC functionality → Licensing. WinCE license required → Accessories. Compact Flash TM required → Accessories.								
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	5.7	115 × 86	320 x 240	1	XV-442-57CQB-1-10 85 17 200110	1 off
		Brushed satin finished stainless steel ²⁾	5.7	115 × 86	320 x 240	1	XV-442-57CQB-1-50 85 17 200280	
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	5.7	115 × 86	320 x 240	1	XV-432-57CQB-1-10 85 17 200010	
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	10.4	211 × 158	640 × 480	2	XV-440-10TVB-1-10 85 17 200400	
		Brushed satin finished stainless steel ³⁾	10.4	211 × 158	640 × 480	2	XV-440-10TVB-1-50 85 17 200575	
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	10.4	211 × 158	640 × 480	2	XV-430-10TVB-1-10 85 17 200300	
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	12.1	246 × 185	800 × 600	2	XV-440-12TSB-1-10 85 17 200700	
		Brushed satin finished stainless steel ³⁾	12.1	246 × 185	800 × 600	2	XV-440-12TSB-1-50 85 17 200875	
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	12.1	246 × 185	800 × 600	2	XV-430-12TSB-1-10 85 17 200600	

Notes:

- 1) A LIC-HMI-EPAM-STD license product paper is required for operation of EPAM → Licensing.
- 2) Is also approved for IP69K
- 3) Is also approved for II 2G EEx p II IP5x (ATEX 94/9/EC):
 - Zone 1, category 2G (only for mounting in a pressurized housing! Max. permissible pressure: 10 mbar continuous.)
 - Zone 2, category 3G (only for mounting in a pressurized housing! Max. permissible pressure: 10 mbar continuous.)



Display	Version front	Screen diagonal Inch	Display area mm	Resolution Pixels	Type Order No.	Price See price sheet	Std. pack
XVS400 Processor RISC CPU, 32-bit, 400 MHz OS, program und data memory 64 MB Display: 5.7" CSTN-LCD (color), 256 colors; 10.4"/12.1" TFT-LCD (color), adjustable: 65536 or 256 colors Integrated interfaces: Ethernet, RS 232, Profibus ¹⁾ (up to 1.5 Mbaud), USB Host, USB Device Software: Visualization = GALILEO or EPAM ²⁾ , PLC = MXpro Basic device with 140 license points enables communication to the value of 40 points via an onboard interface. Additional communication options and PLC functionality → Licensing. WinCE license required → Accessories. Compact Flash TM required → Accessories.							
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	5.7	115 × 86	320 x 240	XVS-440-57MPI-1-10 85 31 200100	1 off
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	5.7	115 × 86	320 x 240	XVS-430-57MPI-1-10 85 31 200000	
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	10.4	211 × 158	640 × 480	XVS-440-10MPI-1-10 85 31 200300	
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	10.4	211 × 158	640 × 480	XVS-430-10MPI-1-10 85 31 200200	
	IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	12.1	246 × 185	800 × 600	XVS-440-12MPI-1-10 85 31 200500	
	Resistive touch, absolutely flat (seamless protective seal)	Standard film	12.1	246 × 185	800 × 600	XVS-430-12MPI-1-10 85 31 200400	

Notes:

- 1) Possible protocols via Profibus: MPI, PPI, DP master
- 2) A LIC-HMI-EPAM-STD license product paper is required for operation of EPAM → Licensing.

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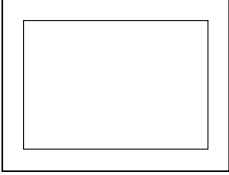
Display	Version front	Screen diagonal Inch	Display area mm	Resolution Pixels	Communication interface	Type Order No.	Price See price sheet	Std. pack
XVH300 Processor: RISC CPU, 32-bit, 200 MHz OS, program und data memory 64 MB Display: 5.7" CSTN-LCD (color), 256 colors Integrated interfaces depending on type: Ethernet, USB Device, communication interface(s) Software: Visualization: GALILEO or EPAM ¹⁾ Basic device with 140 license points enables communication to the value of 40 points via an onboard interface. Additional communication options → Licensing. WinCE license required → Accessories. Compact Flash™ required → Accessories.								
IR touch (infra-red light matrix), robust, scratchproof front (safety glass)	Standard film	5.7	115 × 86	320 x 240	CAN	XVH-340-57CAN-1-10 85 16 200610		1 off
	Standard film	5.7	115 × 86	320 x 240	Suconet K, RS 232	XVH-342-57SKS-1-10 85 16 200950		
	Standard film	5.7	115 × 86	320 x 240	CAN	XVH-330-57CAN-1-10 85 16 200110		

Notes:

1) A LIC-HMI-EPAM-STD license product paper is required for operation of EPAM → Licensing.





Display	Screen diagonal Inch	Display area mm	Resolution Pixels	Additional interface	Type Order No.	Price See price sheet	Std. pack
XVC600 Processor: Pentium 200 MHz, ETX form factor, 64 MByte DRAM, 32 KByte SRAM Data/program memory: removable Compact Flash™ Integrated interfaces: CAN, Ethernet, RS 232 IP65 front incl. Compact Flash with PLC and EPAM runtime system incl. battery for real-time clock TFT color display Software: Visualization = EPAM ¹⁾ , PLC = MXpro ¹⁾							
							
IR touch (Infra-red light matrix) robust, scratchproof front (safety glass)	10.4	211 × 158	640 × 480 VGA	–	XVC-601-GTI-10-V1-000 85 32 000000		1 off
	10.4	211 × 158	640 × 480 VGA	PROFIBUS-DP	XVC-601-GTI-10-DPM-V1-000 85 32 000100		
	15	304 × 228	1024 × 768 XGA	–	XVC-601-GTI-15-V1-000 85 32 000500		
	15	304 × 228	1024 × 768 XGA	PROFIBUS-DP	XVC-601-GTI-15-DPM-V1-000 85 32 000600		

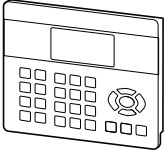
Notes: 1) No license product paper required

For information on additional products such as:

- Infra-red touch DVI panel
- Compact devices without display

Please contact your Micro Innovation agent.

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Description	Type Order No.	Price See price sheet	Std. pack
<p>HMI-PLC XVC100 Text display HMI-PLC with small mounting depth for use in restricted spaces.</p>  <ul style="list-style-type: none"> 8 × 20 or 4 × 10 characters 28 keys, 8 of which are function keys 1 × CompactFlash slot 1 × CAN interface 1 × RS232 interface 10 × digital inputs, 24 V 2 × counter inputs, 50 kHz 2 × interrupt inputs 1 encoder input, max. 50 kHz 8 × digital outputs, 24 V DC/0.5 A 8 × digital inputs/outputs, 24 V DC/0.5 A, can be configured individually 2 × analog inputs, 0 – 10 V/0 – 20 mA, 10-bit 2 × analog outputs ±10 V/12-bit incl. battery 	<p>XVC-101-C192K-K82 85 23 200000</p>		<p>1 off</p>



Description	For use with	Type Order No.	Price See price sheet	Std. pack
Windows CE licenses				
WinCE 3.0 License with license sticker	XV-2... XV-4... XVS-4... XVH-3...	LIC-OS-CE30 91 30 600000		1 off
WinCE 5.0 Standard license with license sticker	XV-2... XV-4... XVS-4... XVH-3...	LIC-OS-CE50-C In preparation		
Professional license with license sticker	XV-2... XV-4... XVS-4... XVH-3...	LIC-OS-CE50-P In preparation		
Memory cards				
– Compact Flash without operating system	XV-2... XV-4... XVS-4... XVH-3... XVC-1...	MEMORY-CF-A1-S 50 61 000400		1 off
– Compact Flash, bootable with Windows CE, without Windows CE license	XV-2... XV-4... XVS-4... XVH-3...	OS-FLASH-A1-S 90 17 000060		
– Compact Flash, bootable without operating system and without runtime systems, for storing applications and data	XVC-6...	MEMORY-CF-BRS-1 50 61 000510		
XV license product papers				
– PLC license product paper with license sticker	XV-2xx-57BAS... XV-2xx-57CNN...	LIC-PLC-MXP-LIGHT 91 30 000050		1 off
– PLC license product paper with license sticker	XV-2xx-57MPN... XV-4xx-57... XVS-4xx-57...	LIC-PLC-MXP-SMALL 91 30 000100		
– PLC license product paper with license sticker	XV-4xx-10... XV-4xx-12... XVS-4xx-10... XVS-4xx-12...	LIC-PLC-MXP-MEDIUM 91 30 000110		
– EPAM license product paper with license sticker	XV-4... XVS-4... XVH-3...	LIC-HMI-EPAM-STD 91 30 000012		
– License product paper 40 POINTS	XV-2... XV-4... XVS-4... XVH-3...	LIC-OPT-1ST-LEVEL 91 30 000400		
– License product paper 80 POINTS	XV-2... XV-4... XVS-4... XVH-3...	LIC-OPT-2ND-LEVEL 91 30 000420		
Communication modules				
– Multiprotocol board	XV-4...	COM-MPB1-TP 85 12 000009		1 off
– Multiprotocol board MPI	XV-4...	COM-MPB2-TP 85 12 000004		
– PROFIBUS DP Master (12Mbaud)	XV-4...	COM-DPM-MC2 85 12 000200		
– PROFIBUS DP Slave (12Mbaud)	XV-4...	COM-PDP-TP 85 12 000008		
– EIB	XV-4...	COM-EIB2-TP 85 12 000011		
Additional fixing brackets				
– Additional fixing brackets for IP65	XV-4... XVS-4... XVH-3...	ACCESSORIES-HKS-IP65 65 01 000002		1 off
– Set of retaining brackets for mounting the device (4 retaining brackets with threaded pin)				
Batteries				
– Spare batteries	XVC-6... XVC-1...	ACCESSORIES-BAT01x 45 60 000001		1 off



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Description	For use with	Type Order No.	Price See price sheet	Std. pack
Device accessories (supplied with the devices)				
- Device accessories as replacement 8 Retaining brackets for mounting the device 8 Threaded pins for mounting the device 1 Sealing strip for mounting the device 1 Power supply connector 1 Touch pen	XV-2...	ACCESSORIES-TP-57-KG-1 83 17 000018		1 off
- Device accessories as replacement ¹⁾ 1 Set of retaining brackets for mounting the device (4 retaining brackets with threaded pin) 1 Sealing strip for mounting the device 1 Power supply connector 1 Touch pen	XV-4xx-57... XVS-4xx-57... XVH-3...	ACCESSORIES-TP-57-RES-1¹⁾ 83 17 000001		
- Device accessories as replacement 2 Set of retaining brackets for mounting the device (4 retaining brackets with threaded pin) 1 Sealing strip for mounting the device 1 Power supply connector 1 Touch pen	XV-4xx-10... XV-4xx-12... XVS-4xx-10... XVS-4xx-12...	ACCESSORIES-TP-10/12-RES-1 83 17 000007		

Notes 1) XV-442-57-CQB-1-50 have a special seal



Licensing XV200, XV400, XVS400 and XVH300

The range of functions possible for each device is determined by means of license points that are uniquely assigned to the device concerned. Additional license points can be assigned to the device by means of license product papers (see Accessories XV license product papers). Licensing is carried out via the Internet at www.microinnovation.com/license.

Entering the license product paper and device series number on the web page provides you with the license code and a license confirmation via email for your production documents. You enter the license code via the licensing menu on the device and thus increase the number of internal license points on the device.

Note:

If there are not enough license points on the device for the required functionality, a message box of the touch display will prompt you at regular intervals to extend the license for the device.

Calculation of the required license points

To use the PLC function in accordance with the applicable license conditions, the device license must be extended explicitly using a specific license product paper, see table „XV license product papers“. These license product papers contain a PLC license sticker which must be affixed to the device.

Add the required license points for each of the external communication options you use. Communication to several devices with the same protocol only has to be counted once. Deduct the number of points already on the device (e.g. 140) from the total. The resulting difference is the number of license points that must be added using the license product papers.

Number of required license points depending on the required functionality:

Runtime / Tools	Onboard interface	License points
GALILEO runtime	–	100
EPAM runtime	–	100 ¹⁾
MX _{pro} runtime	–	100
CE Telediag	RS232	40
S7 PG Router	Ethernet and Profibus	80
CAN Monitor	CAN	–
DXS Remote (DXS communication)	Ethernet	80

Communication	Onboard interface	License points		
		MX _{pro}	GALILEO	EPAM
Programming access	Ethernet	0	0	0
CoDeSys-SYMArti local (GALILEO / EPAM ↔ MX _{pro})	Local	0	0	0
CoDeSys-SYMArti external	Ethernet	0	40	0
A.Bradley DF1	RS232	–	40	–
A.Bradley EtherNet/IP	Ethernet	–	120	–
Beckhoff TwinCAT ADS	Ethernet	–	80	–
CANopen, Master	CAN	0	–	–
CANopen, Device (Slave)	CAN	0	40	–
DXS Remote (DXS communication)	Ethernet	–	80	–
Modbus TCP/IP	Ethernet	–	80	–
Modbus RTU	RS232	–	40	–
Moeller easy800/MFD	RS232	–	40	–
Moeller Sucom A	RS232	–	40	–
Moeller Suconet K on XVH342-57SKS	Suconet K	–	0	–
Profibus DP Master (1.5 Mbaud)	PROFIBUS	40	–	–
Siemens Industrial Ethernet	Ethernet	–	80	–
Siemens MPI	PROFIBUS	–	40	–
Siemens PPI	PROFIBUS	–	40	–
Siemens S7 Profibus Standard Profile	PROFIBUS	–	40	–

Notes: 1) A LIC-HMI-EPAM-STD license product paper is required for the operation of EPAM runtime on XV400, XVS400 and XVH300 devices. The sticker provided on the license product paper must be affixed to the device. Validation of the certificate via the Internet is unnecessary.

Contact your Micro Innovation representative for any enquiries about other protocols.



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List of the most common protocols

The following is a list of the most common protocols that can be implemented on XV400 devices by using optional plug-in communication modules (no license points required).

Protocol	Required communication modules for XV400
EIB (3rd release)	COM-EIB2-TP
Matsushita FP Series	COM-MPB1-TP / COM-MPB2-TP
Mitsubishi A Series / F Series	COM-MPB1-TP / COM-MPB2-TP
Moeller Suconet K	COM-MPB1-TP / COM-MPB2-TP
Omron C H K Series	COM-MPB1-TP / COM-MPB2-TP
Profibus DP Master (12 Mbaud)	COM-DPM-MC2
Profibus DP Slave (12 Mbaud)	COM-PDP-TP
Siemens MPI	COM-MPB2-TP
Telemecanique Unitelway new	COM-MPB1-TP / COM-MPB2-TP

Contact your Micro Innovation representative for any enquiries about other protocols.

XV license product papers

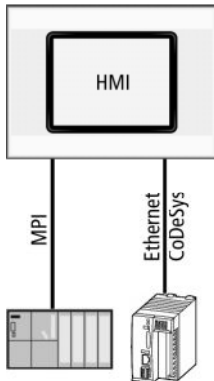
The following license product papers are available depending on the functions required (→ Accessories):

XV license product papers	For use with	Type
PLC function		
PLC license product paper with license sticker	XV-2xx-57BAS... XV-2xx-57CNN...	LIC-PLC-MXP-LIGHT
PLC license product paper with license sticker	XV-2xx-57MPN... XV-4xx-57... XVS-4xx-57...	LIC-PLC-MXP-SMALL
PLC license product paper with license sticker	XV-4xx-10... XV-4xx-12... XVS-4xx-10... XVS-4xx-12...	LIC-PLC-MXP-MEDIUM
EPAM		
EPAM license product paper with license sticker	XV-4... XVS-4... XVH-3...	LIC-HMI-EPAM-STD
Communication		
40 license points	XV-2... XV-4... XVS-4... XVH-3...	LIC-OPT-1ST-LEVEL
80 license points	XV-2... XV-4... XVS-4... XVH-3...	LIC-OPT-2ND-LEVEL



Licensing examples:

HMI application: XV200, XVS400

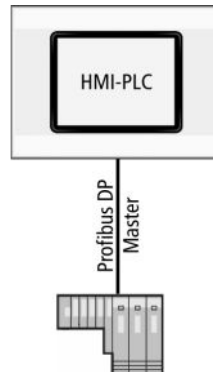


Visualization, communication	
Visualization (GALILEO)	100 Points
Communication MPI	40 Points
Communication CoDeSys external	40 Points
Total	180 Points
Already provided in the device on delivery	-140 Points
Additional points required for communication	40 Points

PLC	
PLC application	No

Required license product papers:
1 × LIC-OPT-1ST-LEVEL (40 points)

HMI-PLC application: XV200 Profibus and XVS400 5.7"

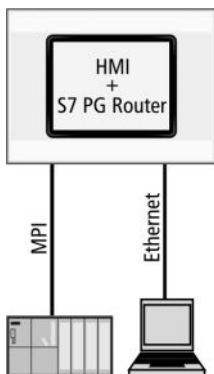


Visualization, communication	
Visualization (GALILEO)	100 Points
Communication HMI ↔ PLC local	0 Points
Communication Profibus DP Master (MXpro)	40 Points
Total	140 Points
Already provided in the device on delivery	-140 Points
Additional points required for communication	0 Points

PLC	
PLC application	100 Points

Required license product papers:
1 × LIC-PLC-MXP-SMALL (100 points, only for XV-2xx-57MPN..., XV-4xx-57... and XVS-4xx-57...)

HMI application: XV200, XVS400, with additional software, e.g. S7 PG Router

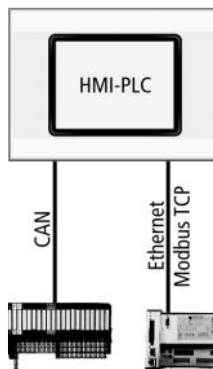


Visualization, communication	
Visualization (GALILEO)	100 Points
Communication MPI	40 Points
S7 PG Router	80 Points
Total	220 Points
Already provided in the device on delivery	-140 Points
Additional points required for communication	80 Points

PLC	
PLC application	No

Required license product papers:
1 × LIC-OPT-2ND-LEVEL (80 points)

HMI-PLC application: XV400 10.4"

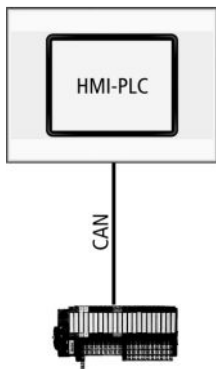


Visualization, communication	
Visualization (GALILEO)	100 Points
Communication HMI ↔ PLC local	0 Points
Communication Modbus TCP client (GALILEO)	80 Points
Communication CANopen (MXpro)	0 Points
Total	180 Points
Already provided in the device on delivery	-140 Points
Additional points required for communication	40 Points

PLC	
PLC application	100 Points

Required license product papers:
1 × LIC-OPT-1ST-LEVEL (40 points)
1 × LIC-PLC-MXP-MEDIUM (100 points for XV-4xx-10... and XV-4xx-12... and XVS-4xx-10... and XVS-4xx-12...)

HMI-PLC application: XV200 CAN



Visualization, communication	
Visualization (GALILEO)	100 Points
Communication HMI ↔ PLC local	0 Points
Communication CANopen (MXpro)	0 Points
Total	100 Points
Already provided in the device on delivery	-140 Points
Additional points required for communication	0 Points

PLC	
PLC application	100 Points

Required license product papers:
1 × LIC-PLC-MXP-LIGHT (60 points for XV-2xx-57BAS... and XV-2xx-57CAN...)



Validating license product papers

The validation of license product paper couldn't be simpler. Once you have entered the license product paper and the device series number on the Internet page www.microinnovation.com/license the license code is issued immediately for activating the device functions required. After the license code is entered on the XV200, XV400, XVS400 or XVH300 device, the additional license points are added directly to the device.

