



KV-XLE02  
Ethernet unit, 2 ports



\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		KV-XLE02
Type		Ethernet unit
Connection interface		RJ-45 8-pole modular connector × 2 ports
Transmission specifications	Transmission rate	10BASE-T: 10 Mbps, 100BASE-TX: 100 Mbps, 1000BASE-T: 1000 Mbps *1
	Transmission media	10BASE-T: Category 3 or higher UTP or STP (STP is recommended) 100BASE-TX: Category 5 or higher UTP or STP (STP is recommended) 1000BASE-T: Category 5e or higher UTP or STP (double-shielded STP is recommended) *2
Max. cable length		10BASE-T: 100 m <a href="#">328.1'</a> 100BASE-TX: 100 m <a href="#">328.1'</a> 1000BASE-T: 100 m <a href="#">328.1'</a> *3
Max. number of connectable hubs		10BASE-T: 4 100BASE-TX: 2 1000BASE-T: 1 *4
Refresh		Automatic refresh, direct refresh, inter-unit synchronization refresh
Ethernet functions		KV socket communication, PLC link, PROTOCOL STUDIO, FTP server/client, KV sensor network, Modbus server*5, MC protocol/SLMP*6, etc.
Industrial networks		EtherNet/IP™, PROFINET, EtherCAT®,*7 CC-Link IE Field*8*9
Ethernet function execution methods		Ladder program, unit program (flow)
Unit program capacity		3 MB (Max. number of blocks: Approx. 20000)
flow	Max. number of flows	256
	Number of simultaneous activities	Unlimited
Flow	Internal data Memory	524288 words
PROTOCOL STUDIO	Transmission method	Cyclic communication: Tx + Rx, Tx only, Rx only. Event communication: Tx + Rx, Tx only, Rx only, Tx + Continuous Rx
	Max. number of connected devices	16
	Max. number of communication commands	160/320*10
	Maximum number of total frames	Rx: 160/320*10 × 16 Tx: 160/320*10 × 1
	Max. number of compared received frames	16 per command
	Maximum number of block elements	96 per frame
	Transmission data length	Standard: 1 to 2048 bytes per frame, Extended: 1 to 16384 bytes per frame
	Reception data length	

PLC link	Communication patterns	Write, read, transfer
	Number of link settings	512 settings max.* <sup>11</sup>
	Link data size	1440 words max. per setting (bit: 720 words, word: 720 words), 737280 words max. (total) (1440 words × 512 settings)
	Data unit	1 word
	Number of connected models	16 models max.* <sup>11</sup>
	Number of connected units	64 max.* <sup>11</sup>
	Trigger types	Cyclic/event (64 settings max. for event* <sup>11</sup> )
	Update interval	1 to 65535 ms
Internal current consumption		200 mA or less
Weight		Approx. 190 g <a href="#">6.71 oz</a>

\*<sup>1</sup> 10 Mbps/100 Mbps/1000 Mbps MDI/MDI-X automatic switching function supported

\*<sup>2</sup> STP = Shielded twisted pair cable; UTP = Unshielded twisted pair cable

\*<sup>3</sup> The maximum cable length refers to the distance between the KV-XLE02 and the Ethernet switch.

\*<sup>4</sup> The maximum number of connection is not limited when an Ethernet switch is used.

\*<sup>5</sup> Modbus is a registered trademark or trademark of Schneider Electric.

\*<sup>6</sup> SLMP is a registered trademark or trademark of Mitsubishi Electric Corporation.

\*<sup>7</sup> EtherCAT® is fixed at 100 Mbps. It is not usable at different transmission rates.

\*<sup>8</sup> CC-Link IE Field is fixed at 1000 Mbps. It is not usable at different transmission rates.

\*<sup>9</sup> Industrial network trademarks

• EtherNet/IP™ is a registered trademark or trademark of ODVA.

• PROFINET is a registered trademark or trademark of PROFIBUS Nutzerorganisation e.V.

• EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany

• CC-Link IE Field is a registered trademark or trademark of Mitsubishi Electric Corporation.

\*<sup>10</sup> The max. is 160 when "Standard" is set for the number of communication commands in Unit Editor and 320 when "Extended" is set.

\*<sup>11</sup> Total for one KV-XLE02 unit.

# Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

kv-xle02\_dimension\_01.gif

