

INDUSTRIAL COMPONENT DATA

STC-MBS510U3V 3Z4S7044M 3Z4SCASTCMBS510U3V OMRON Area Scan Camera USB 3.0, 5 MP, monochrome, Sony IMX250 CMO..

Brand: OMRON | Manufacturer Part Number: STC-MBS510U3V



Manufacturer	OMRON
MPN / Reference	STC-MBS510U3V
Catalog number	3Z4SCASTCMBS510U3V
Category	Machine vision system (MVS)
Minimum order	1 Pcs
Document ID	EO-AEDABEF34B
Generated	2026-08-06

Product Overview

Area Scan Camera USB 3.0, 5 MP, monochrome, Sony IMX250 CMOS, 2/3", 3.45 um, 75 fps, global shutter, C support, with housing

USB 3.0 Area Scan Camera, 5 MP, Monochrome, CMOS Sony IMX250, 2/3", 3.45 µm, 75 fps, Global Shutter, C Mount, Cased

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path	OMRON
--------------	-------

Additional Product Information

Specifications

Camera type Monochrome

Number of pixels 5.0 MP

Interface USB 3.0

Lens mount C-mount

Shutter type Global

Image width 2448 pixels

Image height 2048 pixels

Image sensor format 2/3"

Image sensor type IMX250

Pixel size 3.45 µm

Frame rate 75.7 fps

Optical filter None

Lens type Not Applicable

Scan type Area scan

Accessories

CAB-USB3-02 USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, 2 m

CAB-USB3-02-RB USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, robot cable, 2 m

CAB-USB3-03 USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, 3 m

CAB-USB3-03-RB USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, robot cable, 3 m

CAB-USB3-05 USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, 5 m

CAB-USB3-05-RB USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, robot cable, 5 m

CAB-USB3-07 USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, 7 m

CAB-USB3-07-RB USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, robot cable, 7 m

CAB-USB3-10 USB 3.0 cable, USB3.0 Micro-B, Camera side with fastening screws, 10 m

ETIM for 681283 Sensors (EC004672)

Feature Name

Feature Value

Voltage type (EF000187)

DC

Model (EF000010)

Camera

Type of interface (EF006977)

Other

Number of outputs, signalling function, undelayed, with contact (EF003348)

0

Number of outputs, signalling function, undelayed, semiconductors (EF003350)

0

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / STC-MBS510U3V with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.