

Motorized Card Readers & Encoders (OEM type)

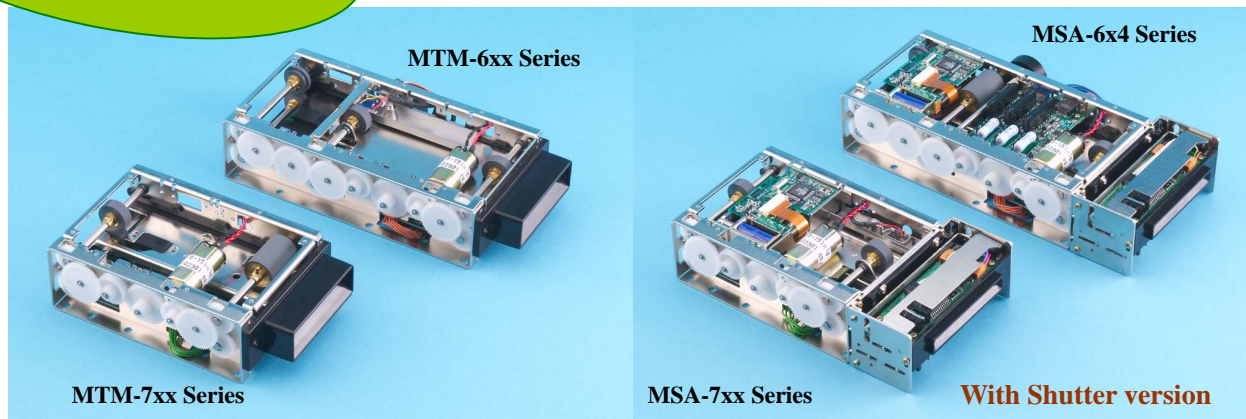
MTM-790 & MTM-690 Series

MSA-790 & MSA-690 Series

**EMV 3.1.1 Level 1
Type Approved**

Hybrid type available
With Shutter version available
Strong card feeding force

Various Interfaces available
Hi-Co/Lo-Co Switchable type available
Space-saving



Specification

Interface	TTL, RS-232, USB (Virtual COM)
Mag. Card type	ISO/IEC 7810 ID-1, ISO/IEC 7811-1, -2, -6
IC Card type	ISO/IEC 7816-1, -2 (MSA TTL I/F Series) ISO/IEC 7816-1, -2, -3 (T=0, T=1) EMV Ver.3.1.1 (MSA RS-232, USB I/F Series)
Card feeding speed	300mm/s
Magnetic Head life	500,000 passes
IC contact life	300,000 times (MSA Series)
Allowance of card thickness	0.20 to 0.84mm *
Power	DC+12V
Weight	Approx 0.65kg (MSA-694S-3A-0102)
Dimensions	80 (W) x 132 (L) x 41 (H) mm (MTM/MSA-7xx Series) 91 (W) x 152 (L) x 41 (H) mm (MTM/MSA-7xx with Shutter Series) 95 (W) x 170 (L) x 41 (H) mm (MTM/MSA-6xx Series) 96 (W) x 191(L) x 41 (H) mm (MTM/MSA-6xx with Shutter Series)

*Depending on card materials, conditions of card surfaces, etc, there is a possibility that cards with thickness 0.20 to 0.25mm cannot be carried normally.

**MSA-7xxS/U series and MSA-6xxS/U series (Hybrid type of Magnetic stripe and IC contact) are EMV 3.1.1 Level 1 Type Approved.

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MODEL TYPE

Model Number	Magnetic Stripe			IC Card	Interface	Note
	ISO 1	ISO 2	ISO 3			
MTM-770T-1R-0101		R			TTL	
MTM-790T-3R-0101	R	R	R		TTL	
MTM-770S-1R-0101		R			RS-232	
MTM-790S-3R-0101	R	R	R		RS-232	
MTM-770U-1R-0101		R			USB	
MTM-790U-3R-0101	R	R	R		USB	
MTM-670T-1A-0101		R/W			TTL	
MTM-690T-3A-0101	R/W	R/W	R/W		TTL	
MTM-670S-1A-0101		R/W			RS-232	
MTM-690S-3A-0101	R/W	R/W	R/W		RS-232	
MTM-670U-1A-0101		R/W			USB	
MTM-690U-3A-0101	R/W	R/W	R/W		USB	
MTM-674T-1A-0101		R/W			TTL	Hi-Co / Lo-Co Switchable
MTM-694T-3A-0101	R/W	R/W	R/W		TTL	Hi-Co / Lo-Co Switchable
MTM-674S-1A-0101		R/W			RS-232	Hi-Co / Lo-Co Switchable
MTM-694S-3A-0101	R/W	R/W	R/W		RS-232	Hi-Co / Lo-Co Switchable
MTM-674U-1A-0101		R/W			USB	Hi-Co / Lo-Co Switchable
MTM-694U-3A-0101	R/W	R/W	R/W		USB	Hi-Co / Lo-Co Switchable
MSA-770T-1R-0101		R		R/W	TTL	
MSA-790T-3R-0101	R	R	R	R/W	TTL	
MSA-770S-1R-0101		R		R/W	RS-232	
MSA-790S-3R-0101	R	R	R	R/W	RS-232	
MSA-770U-1R-0101		R		R/W	USB	
MSA-790U-3R-0101	R	R	R	R/W	USB	
MSA-670T-1A-0101		R/W		R/W	TTL	
MSA-690T-3A-0101	R/W	R/W	R/W	R/W	TTL	
MSA-670S-1A-0101		R/W		R/W	RS-232	
MSA-690S-3A-0101	R/W	R/W	R/W	R/W	RS-232	
MSA-670U-1A-0101		R/W		R/W	USB	
MSA-690U-3A-0101	R/W	R/W	R/W	R/W	USB	
MSA-674T-1A-0101		R/W		R/W	TTL	Hi-Co / Lo-Co Switchable
MSA-694T-3A-0101	R/W	R/W	R/W	R/W	TTL	Hi-Co / Lo-Co Switchable
MSA-674S-1A-0101		R/W		R/W	RS-232	Hi-Co / Lo-Co Switchable
MSA-694S-3A-0101	R/W	R/W	R/W	R/W	RS-232	Hi-Co / Lo-Co Switchable
MSA-674U-1A-0101		R/W		R/W	USB	Hi-Co / Lo-Co Switchable
MSA-694U-3A-0101	R/W	R/W	R/W	R/W	USB	Hi-Co / Lo-Co Switchable

• With Shutter version: -0102