GAMING STANDARDS

ASSOCIATION

GSA CERTIFIED

Certificate of Compliance
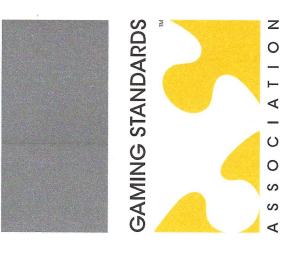
Awarded to:

Nidec Sankyo

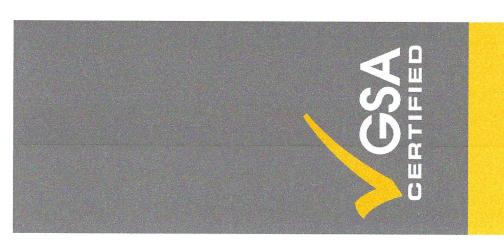**For 3490-02C, Sankyo MCM252-2R1191 and MCM252-2R3390 Card Reader**

The above product was GSA Certified on November 22, 2017, found compliant with GSA standard GDS Card Reader Communication Protoocl v1.3 as detailed in the attached Certification Record

ETHAN TOWER - *GSA Certifcation Authority*

GSACT20171122001

GSA Product Certification Record

Manufacturer	Nidec Sankyo Corporation
Product Name	Nidec Sankyo MCM252-2R1191 and MCM252-2R3390 Card Reader Firmware
Product MPI	3490-02C
Certification Basis	[X] Conformance Testing [ ] Self-Determination
Testing Laboratory	Gaming Laboratories International, LLC
Testing Completed	10/20/2017
GSA Standard	GDS Card Reader Communication Protocol v1.3
Product Status	[X] Certified [ ] Not Certified
Effective Date	11/22/2017
Verified Faults	None

The product identified above has been certified as compliant with the GSA Standard listed above to the extent indicated for each functional group listed below. Some functional groups may be fully compliant. Other functional groups may not be fully compliant and may contain defects or restrictions. Any such defects or restrictions are listed with those functional groups. Some functional groups may not have been tested at all. For the most current information on this product certification, go to the GSA Certified Product Registry on the GSA web site and search for this record using the product MPI shown above.

Functional Group			Compliant	Not Compliant	Not Tested
Report ID	**Command**	**Supported**			
0x02	Enable	Yes	X		
0x03	Disable	Yes	X		
0x04	Self Test	Yes	X		
0x05	Request GAT Report	Yes	X		
0x08	Calculate CRC	Yes	X		
0x5A	Get CRD Config	Yes	X		
0x5B	Read Card Data	Yes	X		
0x5C	Get ATR	No	X		
0x5D	Transfer to ICC	No	X		
0x5E	Release Latch	No	X		

Functional Group			Compliant	Not Compliant	Not Tested
Report ID	**Command**	**Supported**			
0x5F	Light Control Note: When processing the 0x5F Light Control command, the MCM252-2R3390 (LED Bezel) device will produce either Red, Green, or Yellow colors only. If the command is sent with more than one color flag set, the resulting LED color is Yellow instead of the intermediate colors as described in Table 3.19 of the GSA GDS Card Reader v1.3 protocol specification.	Yes	X		
0x60	Clear Buffer	Yes	X		
0x61	Get Count Status	Yes	X		
0x68	Latch Mode	No	X		
0x69	Extended Light Control Note: The MCM252-2R3390 (LED Bezel) device does not support the full range of possible timer values (eg. 10-655350 ms). The effective timing interval range is limited to approximately between 100-25500 ms. For intermediate timer values within this effective range, the device may approximate timing values to operate within 100ms of the originally specified value. Additionally, any specified timing values above 25500 ms will be limited to the 25500 ms maximum interval. * Command is supported for the MCM252-2R3390 (LED Bezel) hardware only. The MCM252-2R1191 (Unlit Bezel) hardware does not support this command and will return status or error responses that are consistent with non-support.	Yes *	X		

Functional Group			Compliant	Not Compliant	Not Tested
Report ID	**Event**	**Supported**			
0x06	Power Status	No	X		
0x07	GAT Data	Yes	X		
0x09	CRC Data	Yes	X		
0x0A	Device State	Yes	X		
0x62	Failure Status	Yes	X		
0x63	CRD Configuration Data	Yes	X		
0x64	Card Status	Yes	X		
0x65	Card Data	Yes	X		
0x66	Error Data	Yes	X		
0x67	Count Status	Yes	X		