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# V2101-T

## Component Compatibility Guide

A list of peripheral components suitable for use with V2101-T computers

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## 1. Introduction

This is a list of hardware components that have either been proven to provide up-to-spec performance when used with the Moxa V2101-T of embedded computers, or which share basic design features with such components.

As Moxa computers come with different peripheral options and are engineered to differing hardware specifications, compatibility issues may sometimes arise. When paired with Moxa's V2101-T of embedded computers, peripherals from one manufacturer may not work as well as those made by another. For this reason, Moxa provides this list of compatible components, so that users may be certain to get the reliability they expect from Moxa's V2101-T.

## 2. Testing Methods

To validate a component as meeting Moxa standards of quality and environmental tolerances, four key compatibility tests may be run:

- Ambient Temperature Burn-In
- Low Temperature Hard Starts
- Heat/Humidity Burn-In
- Cyclic High-Low Temperature Burn-in

### Ambient Temperature Burn-in

Components are mounted in an V2101-T computer and run through a series of stress tests at an ambient temperature of around 25°C for a specified period of time. Test periods are determined according to the class of peripherals being tested.

### Low Temperature Hard Start

Components are mounted in an unpowered V2101-T computer and then the system is booted up from an extremely low temperature. The designated temperature depends on the model being tested.

### Heat/Humidity Burn-in

Components are mounted in an V2101-T computer, placed in a temperature- and humidity-controlled enclosure, and then run through burn-in test for a specific time. The temperature, humidity and time targets vary depending on model specification.

### Cyclic High-Low Temperature Burn-in

Components are mounted in an V2101-T computer, placed in a temperature controlled enclosure, and then put through burn-in test as temperature are cycled from very high to very low and back again over a specified period of time. The target temperatures and time vary depending on model specifications.

### 3. Compatible Components

Check the following table for the validation condition codes and their description.

Test Code	Description
A	The component passed ambient temperature verification
B	The component passed low temperature verification
C	The component passed heat/humidity verification
D	The component passed cyclic high-low temperature verification
E	Component has not been tested, but shares materials and design with another component that has been verified.

The following list shows which peripherals have been tested, and for what specifications, on Moxa's embedded computers.

CF							
Vendor	Size	Moxa's PN	Vendor's PN	Flash Brand	Controller	Firmware	Test Codes
InnoDisk	2 GB	N/A	DC1M-02GD31W1D	N/A	N/A	N/A	B, C, D
InnoDisk	2 GB	N/A	DC1M-02GD31W1DR	N/A	N/A	N/A	B, C, D
InnoDisk	4 GB	N/A	DC1M-04GD31W1D	N/A	N/A	N/A	B, C, D
InnoDisk	8 GB	N/A	DC1M-08GD31W1D-A31	N/A	N/A	N/A	B, C, D
Memoright	1 GB	N/A	MRCFM2A001GB6C1IA0	Samsung	SMI2232	K1124	E
Memoright	2 GB	1352010022120	MRCFM2A002GB8C1IA0	Samsung	SMI2232	K1124	B, C, D
Memoright	4 GB	1352010042112	MRCFM2A004GB0C1IA0	Samsung	SM2232	K1124	E
Memoright	8 GB	1352010082114	MRCFM2A008GB0C1IA0	Samsung	SMI2232	K1124	B, C, D
Memoright	16 GB	1352010162120	MRCFM2A016GN2C1IA0	N/A	SM2232	K0407	B, C, D



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### SD

Vendor	Size	Moxa's PN	Vendor's PN	Flash Brand	Controller	Firmware	Test Codes
ADATA	8GB	N/A	ASDH8GUICL10-R	N/A	N/A	N/A	E
ADATA	16GB	N/A	ASDH16GUICL10-R	N/A	N/A	N/A	E
ADATA	32GB	N/A	ASDH32GUICL10-R	N/A	N/A	N/A	A
Transcend	8GB	N/A	TS8GSDU1	N/A	SM2702BA	N/A	E
Transcend	8GB	N/A	TS8GSDHC10U1	N/A	SM2702BA	N/A	E
Transcend	16GB	N/A	TS16GSDU1	N/A	SM2702BA	N/A	E
Transcend	16GB	N/A	TS16GSDHC10U1	N/A	SM2702BA	N/A	E
Transcend	32GB	N/A	TS32GSDU1	N/A	SM2702BA	N/A	A
Transcend	32GB	N/A	TS32GSDHC10U1	N/A	SM2702BA	N/A	A

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<b>DRAM</b>						
<b>Vendor</b>	<b>Size</b>	<b>Moxa's PN</b>	<b>Vendor's PN</b>	<b>Chip Brand</b>	<b>Speed</b>	<b>Test Codes</b>
DSL	512 MB	1352115121020	D2SS64161XH30AB	Samsung	667	B, C, D
DSL	1 GB	1352110012031	D2SM64162XH30ABIS	Micron	667	B, C, D
DSL	1 GB	1352110012040	D2SH28081XH30AB	Hynix	667	B, C, D
DSL	1 GB	N/A	D2SP64162XH30AAIS	ProMOS	667	B, C, D
DSL	2 GB	1352110022080	D2SH28082XH30AB	Hynix	667	B, C, D
DSL	2 GB	N/A	D2SP28082XH30ABIS	ProMOS	667	B, C, D
InnoDisk	512 MB	1352115121070	M2SK-12HC5I06-G	Hynix	800	B, C, D
InnoDisk	512 MB	N/A	M2SK-12HD4C07-J	Hynix	800	B, C, D
InnoDisk	1 GB	N/A	M2SK-1GPF5I06-B	ProMOS	667	B, C, D
InnoDisk	1 GB	1352110012013	M2SK-1GHF5I06-J	Hynix	800	B, C, D
Transcend	1GB	N/A	TS128MSQ64V8U	Samsung	800	E
Transcend	2GB	N/A	TS256MSQ64V8U	Samsung	800	A
Unigen	512 MB	N/A	UG64T6400L8SU-6AS	Hynix	667	B, C, D
Unigen	512 MB	N/A	UG64T6408L8SU-6AS	ProMOS	667	B, C, D
Unigen	1 GB	N/A	UG12T6408M8SU-6AS	ProMOS	667	B, C, D
Unigen	2 GB	N/A	UG25T6408M8SU-6AP	ProMOS	667	B, C, D
Unigen	2 GB	N/A	UG25T6400M8SU-8CP-000-00	Hynix	800	B, C, D