T2000 Avago Configuration

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T2000 Platform

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T2000 Configuration (Avago)

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1. SGM16 (Sync Gen/Matrix16) = **1pcs**
2. 12GWSGA (12Ghz cellular/W-Lan Signal Generator/Analyzer) = **1pcs**
3. DPS500 (500mA Device Power Supply) = **2pcs**
4. RC5V (Relay Control 5V) = **1pcs**
5. 2.5G Noise Source = **1pcs**

Remark : Only AVG 1, AVG 2, AVG3 with 2.5G Noise Source.
AVG 4, AVG 5, AVG 6, AVG 7, AVG 8, AVG9 without 2.5G Noise Source.

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- **SGM 16**

A Sync Generator/Matrix 16 Module is installed for each test head and has the following functions:

1	Distribution of Pattern generation signals
2	Grouping and distribution of pattern comparison result signals
3	Synchronization of the Digital Modules
4	Generation, selection and distribution of the 10 MHz reference Clock
5	PB Control Word and I^2C bus interface signals.
6	HIFIX, PB identification and interlock.
7	Utility power supplies
8	Trigger Signal generation for external instruments.
9	Reference Driver/Comparator for AC calibration.
10	Interface signals to support mixed signal modules.
11	System DMM access from PB

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T2000 Board Function (Cont)

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- **12GWSGA**

A 12GWSGA Module has the following functions:

"VSG Resource"
"VSA Resource"
"VNA Resource"
"REF SG Resource"
"High Speed Mode and High CN Mode"
"Trigger Function"

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T2000 Board Function (Cont)

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- **DPS500**

The DPS500 mA module includes functions which provide the power supply to drive devices and measure currents.

The DPS500 mA module contains 32 channels of DPS500 mA and each channel has a maximum of 500 mA current outputs. Each channel can be set independently and is capable of parallel drive.

Max DPS500 mA modules per site:	8
Max DPS500 mA modules per system:	16
Max channels for parallel drive:	32
Max output current ×32 parallel drive:	16 A

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T2000 Board Functions (Cont)

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- **RC5V**

A RC5V Module has the following functions:

1. Relay Control on Performance Board

- The RC5V Module has control words for 256 channels (relay control channels). They can be used to set relays and peripheral circuits on the performance board, and read those values.

2. Power Supply to Performance Board.

- Power of up to 5V and 30 A is supplied to the performance board. This power can be used for peripheral circuits on the performance board.

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T2000 Board Functions (Cont)

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- **2.5G Noise Source**

A RC5V Module has the following functions:

The 2.5GNS Module is provided with 4 noise source output pins. Output from each of the 4 pins is supplied to each channel of the 12GWSGA Module, and noise can be output for up to 16pins.

Noise signal source

A noise signal is supplied from one noise signal source. A noise signal generated by the noise signal source is distributed to 4 channels and supplied to each pin. The frequency range of the noise output is 600 MHz to 2.5 GHz.

ENR setting

For ENR, 5 dB, 10 dB, 15 dB, or 20 dB can be selected. This is enabled by switching built-in step attenuator settings.

Switching On/Off for noise output

The noise source, required for the Y-Factor NF measurement, can be set to On or Off.
This function is enabled by setting an RF switch to On or Off.

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T2000 Environmental Conditions

Temperature

- Operating: 24C +/- 6C
- Temperature variation: 2C/hour
- Idle: -20C to 60C

Relative humidity (or dew point temperature)

- Operating: 40% to 65%
- Idle: 20% to 90%
- Dew-point temperature: 8.3C to 11.7C

Vibration

- Operating: 0.2G (5Hz to 50Hz)
- 0.5G (50Hz to 500Hz)
- Idle: 0.2G (5Hz to 50Hz)
- 0.5G (50Hz to 500Hz)

Shock

- Idle: 3G or less

Atmosphere

- Avoid salinity, iron, and corrosive gases.
- Dust content is to be 0.1 mg/m3 or less.

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Power supply conditions

Item		Condition
Power supply type		3-phase AC
Voltage and frequency		180 VAC to 220 VAC, 50/60 Hz ± 0.5%
Number of systems		1 system (standard) 2 systems (maximum)
Current capacity		50 A (maximum)
Ground resistance of ground connection terminal		Less than 100 Ω
Safety standard option specifications	Common-mode lightning-surge voltage	2000 V or less
	Differential-mode lightning-surge voltage	1000 V or less
	Momentary power loss	20 ms or less
	First transient burst voltage	2000 V or less
	First transient burst voltage to external interface cable	2000 V or less

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T2000 Facility Information (Cont)

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- **Preparation of power supply cables and connection to the test system performed by the customer.**

- **A leakage detection breaker with a 50 A current rating and a 30 mA current sensitivity rating.**

- **Use crimp terminals maximum outside diameter is 17 mm or less and hole diameter is 5.3mm (M5).**

- **Recommended crimp terminal: R14-5 (electric wire used: AWG6)**

- **To prevent an electric shock, cover the crimp terminal wire retentive portion with an insulting sleeve.**

Power Consumption and Amount of Heat Generated

Power Consumption: 5.5 kVA

Amount of Heat Generated: 17,500 kJ/h

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T2000 Facility Information (Cont)

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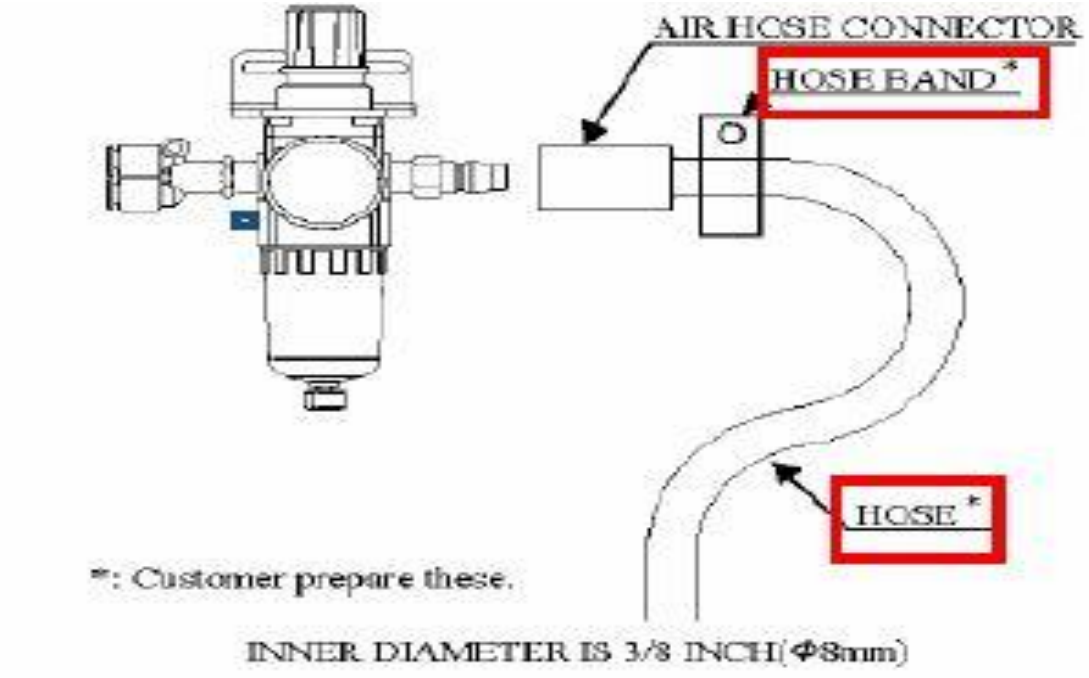
- **Compressed Air**

Pressure: 44 x 104 Pa to 68 x 104 Pa
(4.5 kg/cm2 to 7.0 kg/cm2)
Flow: 5 NL/min to 10 NL/min

A hose with an 8 mm interior diameter should be prepared by the customer and run as shown below:



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T2000 Facility Information (Cont)

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- **System Weight**

- Mainframe
  - (without Liquid Cooling option and Monitor arm) 392 kg
  - (without Liquid Cooling option and with Monitor arm) 409 kg
- Test Head
  - weight (Weight when the maximum number of 600 kg modules are installed)
- Monitor Desk + Monitor + Keyboard
  - weight 50 kg

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END

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