Safety Precautions

Various symbols are used throughout this manual. These are used to emphasize important points for your safety and that of others. The following are the symbols and their meanings:

⚠ Warning	Ignoring this symbol could be potentiality lethal.
⚠ Caution	Ignoring this symbol may lead to physical injury and/or damage to the server or hardware options.

The following symbols are used to indicate the type of warning or caution being described.

⚠	The triangle mark emphasizes the urgency of the WARNING and CAUTION. Details are displayed inside the triangle and above it.
🚫	A barred circle (🚫) warns against certain actions (Do Not). These actions are detailed inside the circle and above it.
⬤	A black circle indicates actions that must be taken. These actions are detailed inside the black circle and above it.

About the Server

⚠ Warning

🚫 • Do not place the server in an area with a weak floor. If the floor is weak it may give way.

🚫 • Do not place this server in a humid, dusty, oily, or smoky area. Do not place this server in an area with poor ventilation or in an area close to fire or other sources of heat. This could damage the server as well as cause it to catch fire or cause an electric shock.

🚫 • Do not place the server in an area close to water. This could damage the server as well as cause it to catch fire or cause an electric shock.

⬤ • The rack system is designed in such as way that it will keep operating even after a vibration of 0.2 G.
It is necessary when installing this server to secure the server/rack to prevent it falling over during an earthquake. Refer to "Contact Information" in "Start Guide", and contact your maintenance engineer in relation to this and other earthquake proofing measures.

⚠ Caution

⬤ • Adhere to the following conditions when installing the server.

Parameter		Setting conditions
Temperature	Operating	10–35°C
	Resting	-5–55°C
Humidity	Operating	20%–80% RH
	Resting	(non-condensing)
Temperature ramp	Operating	Below 15 °Cy/hr
	Resting	(non-condensing)
Particulates		Below 0.15mg/m^3

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⚠ Caution

- Keep the temperature within a 10 to 35°C range.
  Do not expose to direct sunlight or place near heating appliances. Do not install the server in an area where the temperature drops below 10°C. Operating the server outside of this temperature range may damage the server or reduce its life span.
  - Special attention must be given for 24-hour operation (i.e. consideration of the building's air conditioning schedule after hours and on weekends, etc.). Do not use the server when the server's environment cannot be maintained within the range of 10 to 35°C.
  - During the summer, the air conditioning must be set to keep the environmental temperature below 35°C during operation.
  - During the winter, control the heating system to limit ambient temperature rises to less than 15°C per hour to prevent condensation inside the server. Refer to the following figure for details about condensation.

		Room temperature (°C)							Remarks
		10	15	20	25	30	35	40	
Relative humidity (%)	20	-7	-5	-3	1	5	9	13	"Estimate" When the temperature is 25°C and humidity is 60% if the server temperature is 17°C condensation will form.
	40	-3	2	7	11	16	20	24	
	60	3	8	13	17	22	26	31	
	80	7	12	17	22	26	31	–	
	90	9	13	19	24	29	34	–	

⚠ Caution

- 🚫 Do not use the server in a salty environment. This could damage the server and cause injury. Corrosive gas and salt spray can corrode the server and cause malfunctions, damage and shorten the life span of the device. Therefore it is necessary to take preventative measures such as installing air-cleaning devices. Installing the server in a dusty area can also cause damage to the memory, hinder cooling of the device, cause malfunctions and shorten the life span of the device.
  - Chemical factories and hot spa/volcanic areas are sources of emissions of corrosive gas.
  - A salty area is defined as an area within approx. 500m of the coast.
- 🚫 Do not string the connecting cables in a way that they become trip hazards. This could damage the server and cause injury.

- 🚫 Do not place the server in areas where strong magnetic fields are generated, such as near TVs and speakers, as this could damage the server.
- 🚫 Do not block the ventilation holes. Leave a space of at least 20cm between the server and the wall. Poor ventilation traps the heat which can lead to fire.
- 🚫 Do not place the server unit on a slanted, unstable surface or in areas that tend to shake. This could cause it to tip over and injury. Do not place the server in heavy traffic areas such as in a hallway. Passersby can shake the unit and cause damage or malfunction.
- 🚫 Do not place heavy objects on the server. Do not drop anything on it or strike it. This may cause the server to lose its balance and fall over or cause a failure or error.
- 🚫 Shutdown all power and disconnect all cables and peripherals (e.g. mouse, keyboard, etc.) when moving this server.
- 🚫 Two people are necessary to carry this server. When carrying servers with a front door do not hold by the front door. The door may come loose causing the server to fall and cause injury. This may also damage the server.
- 🚫 Be sure to attach stabilizers to the base of the rack of servers with stabilizers to minimize the risk of injury in the event of vibration.

Power/ Voltage/ Connections

* The warning labels for power cables and power plugs include cautions for using an AC adapter.

⚠ Warning

- 🚫 Do not use a voltage other than that displayed. Also, do not use a double adapter. Failure to do so could lead to a fire or cause an electric shock.
- 🚫 Do not handle the power cable with wet hands. Failure to do so can cause an electric shock.
- 🚫 Do not damage or modify (i.e. cutting or extending) the power cable. Heating, forced bending, twisting, pulling, or placing heavy objects on the power cable can damage it, causing fire or electric shock.
- 🚫 Do not use the power cable or the power plug if it is damaged or if the plug outlet is not firmly connected to the cable. Failure to do so can cause a fire or an electric shock.
- ❗ Use a dry cloth to remove all dust from plugs and power outlets. Failure to do so can cause a fire.
- ⏚ For servers that need an earth, ensure the earth has been grounded before turning on the power. If you cannot connect the earth, contact your FUJITSU sales representative or maintenance engineer. A short circuit could lead to a fire or cause an electric shock.

- If a thunder storm is occurring nearby, unplug the server's power cable and modular cable. Failure to do so can cause destruction of the server by lightning and cause a fire.

⚠ Caution

- Do not use an AC adapter that is different from that described in the manual. Also, do not tinker with or disassemble the AC adapter. Failure to do so may cause injury or fire.

- Do not use a service outlet that is different from that described in the manual. Failure to do so may cause injury or fire.

- When unplugging the power cable, do not pull on the cable, hold the plug. Pulling on the cable can expose the cable's wiring or break the cable, causing a fire or an electric shock.

- Ensure the plug is fully inserted into the inlet/power outlet. Failure to do so can lead to a fire or an electric shock.

- When it is necessary to move the server, unplug the power plug. Also disconnect the power cables. While working be careful where you walk. If power cables are damaged, it may cause a fire or an electric shock and if the server falls, it may cause injury.

- When using the server for a short period, unplug all power plugs. Failure to do so could lead to a fire or cause an electric shock.

If an errors occurs

⚠ Warning

- In the event of heat, smoke, a strange smell or noise coming from the server, immediately turn off the power and unplug the power source. Check that the smoke has gone and refer to "Contact Information" in "Start Guide", and contact your maintenance engineer. Do not try attempt to repair the server by yourself. Using the server without repairing it can cause a fire or an electric shock.

- If a foreign object (water, pieces of metal, liquid, etc.) falls into the server, immediately turn off the power and unplug from the power source. Please refer to "Contact Information" in "Start Guide", and contact your maintenance engineer. Failure to do so may cause fire or electric shock. Extreme care should be taken in households with young children.

Handling the server

⚠ Warning

- Do not attempt to tinker with the server. Failure to do so could lead to a fire or cause an electric shock.

- Do not remove the covers of this server and its slots except when installing optional equipment. Refer to "Contact Information" in "Start Guide", and contact your maintenance engineer to request internal check or repair. Areas of high voltage in the server can cause an electric shock.

- Do not use the server if the screen can not viewed or in other failed states. Refer to "Contact Information" in "Start Guide", and contact your maintenance engineer to request repairs. Failure to do so may cause a fire or cause an electric shock.

- Do not insert or drop foreign objects such as metals or inflammable objects into openings in the server (ventilating holes, etc.). This could damage the server as well as cause fire or an electric shock.

- Do not place vases, flowerpots or cups containing water or metal objects near or on the server. This could damage the server as well as cause fire or an electric shock.

- When using insect killer to perform pest control, stop the server and cover it with plastic sheets.

- Do not pour or spill water on this server. This could damage the server as well as cause fire or an electric shock.

- Keep removed covers, caps, screws and other small objects that children might swallow out of their reach. If swallowed, contact a doctor straight away.

⚠ Caution

- Do not obstruct the openings (ventilation holes). This could cause overheating and fire.

- Do not place heavy objects on the server. Also do not jolt the server. This may cause the server to lose its balance and fall over causing injury.

- Do not insert your fingers into the floppy disk drive, CD-ROM drive or IC card slots. Doing so may cause injury.

Handling the optional devices

⚠ Warning

- Before installing or removing optional devices from the server, turn off the server, all peripheral devices, and any other connected devices and unplug the power source. Failure to do so can cause an electric shock.

- Do not connect anything that is not recommended by FUJITSU. This could damage the server as well as cause fire or an electric shock.

⚠ Warning

- When connecting a double modular plug to the modem card attached to the server, do not insert your finger in the open slots. Doing so can cause an electric shock.

- Two people are necessary to carry heavy devices such as the display. Failure to do so can cause injury.

Handling batteries

⚠ Warning

- After removing used batteries, keep them out of the reach of children. If swallowed, contact a doctor straight away.

⚠ Caution

- Do not use batteries not listed in the manual. Also, do not mix new and old batteries. Doing so may cause fire, injury and dirty surroundings by explosion or leakage of batteries.
  Follow the manufacturer's instructions when disposing used batteries.

- Do not heat, disassemble, or put the battery in fire or water. Doing so may cause fire or injury and dirty surroundings by explosion or leakage of batteries.

- Do not recharge dry cell batteries. Doing so may cause fire or injury and dirty surroundings by explosion or leakage of batteries.

- When inserting batteries, make sure the plus and minus are facing the correct way. If they are not, the batteries will be damaged and batteries will leak and cause fire or injury and dirty surroundings.

Handling the rack

⚠ Caution

- Do not block the rack openings (ventilation holes). This could cause overheating and fire.

- Refer to "Contact Information" in "Start Guide", and contact your maintenance engineer to replace a display. If the display falls, it may cause injury.

- When pulling out the mouse table, lock the arm rest securely. If you pull out the table without doing this, there is a chance that the mouse table may be damaged.

⚠ Caution

- Do not rest your elbow on the mouse table. This may damage the table.

- When performing operations on the server somewhere under the keyboard table after pulling it out, be careful not to bump your head. Failure to do so can lead to injury.

- If the server is installed in a multipurpose table, secure the server to the table using the belt provided.

- Be sure to attach stabilizers to the base of the rack to minimize the risk of injury in the event of vibration.

- When moving the rack after installing it, refer to "Contact Information" in "Start Guide", and contact your maintenance engineer. If the rack/device is not moved correctly it may be damaged.

Other

⚠ Warning

- Do not use a cell phone near the server. The server may malfunction.

- In the interests of health, take a 10 to 15 minute break every hour to rest your eyes and hands.

- When using headphones, be careful not to raise the volume too high. Listening to loud noises for long periods of time can damage your hearing.

- Do not turn on/off the power while wearing the headphones. This can damage your hearing.

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