

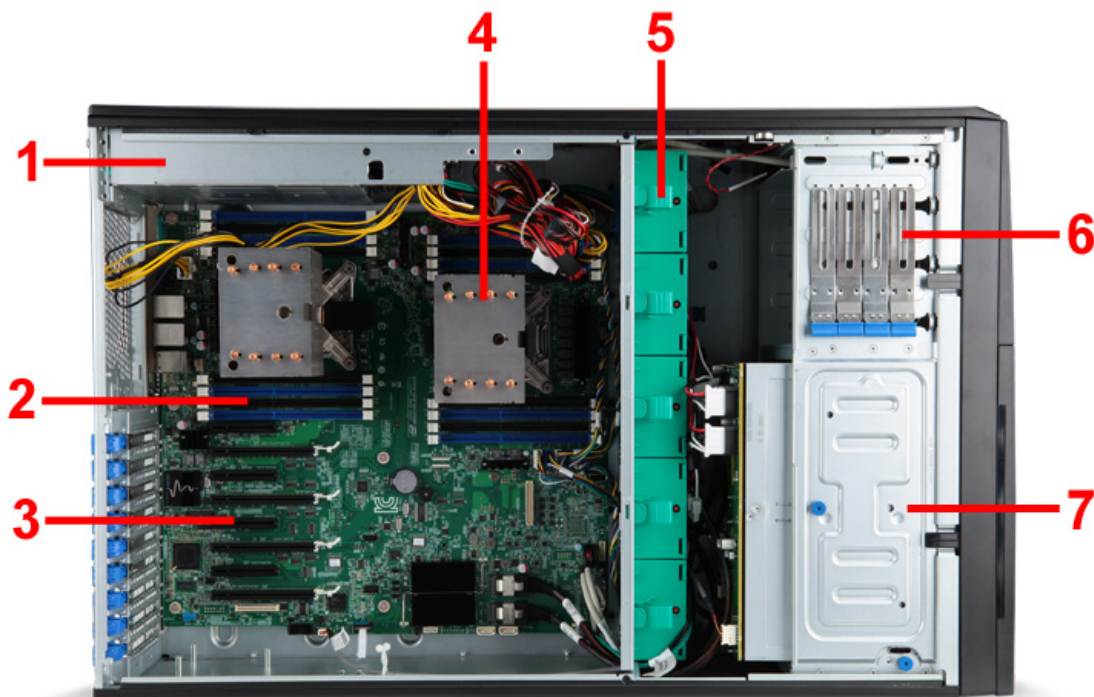
Altos T350 F2 Specifications

Product overview

The Altos T350 F2 is a dual-socket, rack-mountable tower server that delivers exceptional performance, availability, expansion capability, and flexibility. With a maximum 16-core performance along with the latest Intel® Xeon® processors and DDR3 memory, the Altos T350 F2 server is perfect for high-speed, memory-intensive and multi-threaded operations. Hot-swappable HDDs, 8 PCIe® expansion slots and up to 16 DIMM slots give your business the power to customize and expand. This ultra-dense tower server is a power-efficient solution for medium-sized enterprises, departments and branch offices.

Product views

Internal view

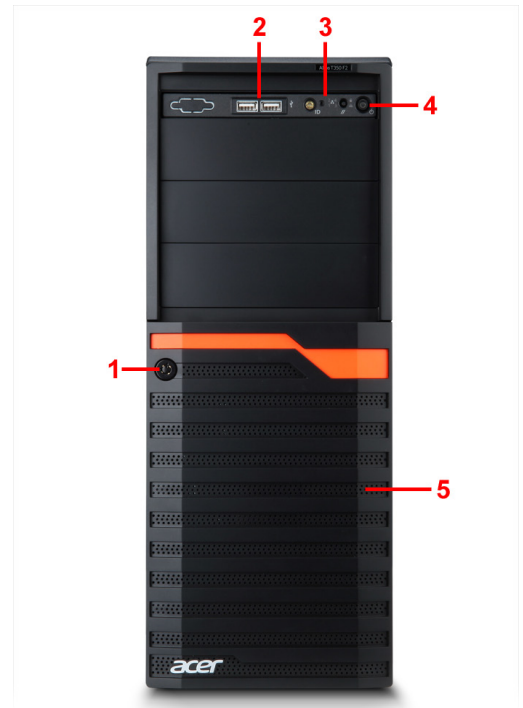


1. 2 x 1200 W or 750 W 80 PLUS® Platinum-certified (1+1 redundant, hot-swappable)
2. 16 x DDR3 ECC registered / unbuffered DIMMs
3. 7 x PCIe® 3.0 expansion slots + 1 x PCIe® 2.0 expansion slot
4. 2 x Intel® Xeon® E5-2600 family processors
5. N+1 redundant system fans
6. 3 x 5.25" media bays
7. Up to 8 x 3.5" hot-swappable hard drive bays
or up to 24 x 2.5" hot-swappable hard drive bays

Altos T350 F2 Specifications

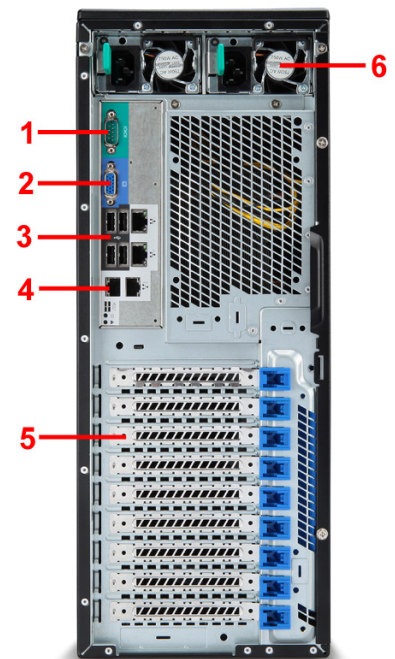
Front View

1. Drive bay lock
2. 2 x USB 2.0 ports
3. LED indicators: power, HDD activity, LAN
4. Power Button
5. Up to 8 x 3.5" hot-swappable hard drive bays or up to 24 x 2.5" hot-swappable hard drive bays



Rear View

1. Serial port
2. Video port
3. 4 x USB ports
4. 4 x Gigabit LAN port (RJ-45)
5. PCIe expansion
6. 2 x 1200 W or 750 W 80 PLUS® Platinum-certified power supplies (1+1 redundant, hot-swappable)



Product Specifications

What's New?

- New Intel® Xeon® E5-2600 v2 processors

Altos T350 F2 Specifications



- 7 x PCIe expansion slots + 1 x PCIe 2.0 expansion slot

Processors and Chipset

- Up to two Intel® Xeon® E5-2600 family processors
- Chipset: Intel® C602

Memory

- Up to 16 x DDR3 or DDR3L registered / unbuffered DIMMs

Network Controllers

- 1 x Quad-port Intel® I350 Ethernet controller

Storage

- Hard disk form factor: 2.5" or 3.5"
- Type: SAS / SATA / SSD with hot-plug capability
- 3.5" Maximum capacity:
 - Up to 24 TB SATA HDD (3 TB 3.5" x 8 HDDs)
 - Up to 16 TB SAS (2 TB 3.5" x 8 HDDs)
- 2.5" Maximum capacity:
 - Up to 24 TB SATA HDD (1 TB 2.5" x 24 HDDs)
 - Up to 21.6 TB SAS (900 GB 2.5" x 24 HDDs)

Storage Controllers

- Intel® 602 chipset with SCU (8 x 3 Gb/s SATA / SAS ports) with RAID 0, 1, 10 support
- Onboard SAS support for RAID 0, 1, 10
- Optional hardware SAS RAID controller with RAID 0, 1, 10, 5, 6, 50, 60 and BBU support

Expansion slots

- 2 x PCIe® 3.0 x16 (x16 connector) (full-height, full-length)
- 2 x PCIe® 3.0 x16 (x16 connector) (full-height, full-length, CPU 2)
- 1 x PCIe® 3.0 x8 (x8 connector) (full-height, full-length)
- 2 x PCIe® 3.0 x8 (x8 connector) (full-height, full-length, CPU 2)
- 1 x PCIe® 2.0 x4 (x8 connector) (full-height, half-length, CPU 2)
- I/O module connector (PCIe® 1.0)

Management

- Acer Smart Server Manager
- System ID LED buttons, System Health LED
- Acer Smart Console for server management and KVM over IP remote management

Altos T350 F2 Specifications

BIOS

- UEFI BIOS
- SMBIOS 2.7

Deployment/Serviceability

- Acer Smart Setup
- BIOS Update Tool
- IPMI Firmware Update Tool

Operating Systems

- Windows Server® 2012 R2
- Windows Server® 2012
- Windows Server® 2008 R2 (includes Hyper-V™)
- Windows Server® 2008 (includes Hyper-V™)
- Red Hat Enterprise Linux 6.3
- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 11
- SUSE Linux Enterprise Server 10
- VMware ESXi™ 5.0
- Citrix® XenServer 6.1

Input/output interface

Front

- 2 x USB 2.0 ports
- Video port
- One Power/off button
- LED indicators: power, HDD activity, LAN, ID, and System status

Rear

- 4 x USB 2.0 ports
- 4 x Gigabit LAN port (RJ-45)
 - Management through port one
- Video port
- Serial port
- System ID LED
- Optional dedicated management port (RJ-45)

Optical drive

- 5.25" SATA DVD Super multi

Graphics

- BMC embedded controller
- 128 MB shared video memory

Altos T350 F2 Specifications



- 16 MB dedicated

Chassis/Form Factor

- Tower / 4U rack mountable

Power Supply

- 2 x 1200 W or 750 W 80 PLUS® Platinum-certified easy-swap power supply units (1+1 redundant, hot-swappable)

Security

- Drive bay door lock
- Chassis intrusion alert
- Administrator/user password
- Power-on password
- Setup password
- Device boot control
- Optional TPM (v1.2-compliant)
- Secure command line interface (SSH)
- Secure browser interface (Secure socket layer - SSL support)
- Secure IPMI LAN interface (Authentication, Integrity, and Confidentiality algorithm)

Regulatory Compliant Standards

Energy Star® compliant

EMC

- FCC (Class B)
- CE (Class B)
- BSMI (Class B)

Safety

- MET
- CB
- Nemko/GS

Environmental Specifications

Dimensions	438 (W) x 708 (D) x 173 (H) mm (17.2 x 27.9 x 6.8 inches)	
Weight	Maximum	80 kg (176.37 lbs.)
System inlet temperature	Operating	0° - 40° C (32° - 104° F)
	Non-operating	-20° - 60° C (-4° - 140° F)
Relative humidity	Operating	8 - 90 %
	Non-operating	5 - 95 %
Acoustics	Idle	

Altos T350 F2 Specifications



	LWAd	4.2 BA
	LpAm	27 dBA
	Operating	
	LWAd	4.9 BA
	LpAm	33 dBA
Power	Rated steady-state power	1000 W at 100 – 127 V 1200 W at 200 – 240 V
	Maximum Peak Power	1000 W at 100 – 127 V 1200 W at 200 – 240 V
	BTU rating	3413 BTU/hr at 100 - 127 VAC 4095.6 BTU/hr at 200 - 240 VAC

Technical specifications

PCIe® specifications

The primary I/O bus for the main board is PCIe® Gen3. The following table lists the characteristics of the PCI-E bus segments. Details about each bus segment follow the table.

NOTE: The signaling bit rate of PCI Express is 8.0 Gbit/s one direction per lane for Gen 3.

Slot	CPU ¹	Type	Bus width ²	Voltage	Connector	Location	Length
1	1	PCIe Gen3	x16	3.3 V	x16	Onboard	Full height, half length
2	1	PCIe Gen3	x8 or none ³	3.3 V	x8	Onboard	Full height, full length
3	1	PCIe Gen3	x8 or x16 ³	3.3 V	x16	Onboard	Full height, full length
4	2	PCIe Gen3	x8 or none ³	3.3 V	x8	Onboard	Full height, full length
5	2	PCIe Gen3	x8 or x16 ³	3.3 V	x16	Onboard	Full height, full length
6	2	PCIe Gen3	x8 or none ³	3.3 V	x8	Onboard	Full height, full length
7	2	PCIe Gen3	x8 or x16 ³	3.3 V	x16	Onboard	Full height, full length
8	2	PCIe Gen2	x4	3.3 V	x8	Onboard	Full height, full length
I/O module	2	-	x8	3.3 V	I/O slot	Onboard	N/A

NOTE:

1. CPU 2 indicates that a second CPU is required to access the PCIe® slot.
2. Indicates the number of physical electrical lanes running to a PCIe® connector.
3. Slots 2 to 7 operate in pairs (2+3, 4+5 and 6+7); each pair sharing two multiplexed x8 connections. Slots 3, 5 or 7 operate at full x16 unless a card is inserted in slots 2, 4 or 6, whereupon both slots operate at x8.

Slots are enumerated differently based on the operating system. Microsoft® operating systems enumerate Device ID by bus starting from the lowest bus to the highest.

Onboard storage specifications

Item	Description
Controller	Intel® 600 Platform Controller Hub
Simultaneous drive transfer channels	8 onboard SATA / SAS ports
Max throughput per channel	3 Gb/s
Data transfer method	<ul style="list-style-type: none"> • Non-RAID mode • RAID mode
Drive type supported	Serial ATA; Serial Attached SCSI (SAS)

Altos T350 F2 Specifications



RAID levels support	<ul style="list-style-type: none"> • RAID 0, 1, 10, (Intel software RAID) • RAID 0, 1, 10 (ESRT (LSI) software RAID)
RAID function support	<p>NOTE: Intel software RAID only supports Windows OS</p> <ul style="list-style-type: none"> • Supports multiple logical volumes • Setup through ROM based Array Configuration Utility Installation scripting support
RAID OS support	<ul style="list-style-type: none"> • Windows Server 2012 • Windows Server 2012 R2 • Windows Server® 2008 • Windows Server® 2008 R2 • Windows Server® 2003 • Red Hat Enterprise Linux 5 / 6 • SuSE Linux Enterprise Server 10 / 11
Additional features	NCQ (Native Command Queuing)

Onboard LAN specifications

Item	Description
Controller	1 x Quad-port Intel® I350 Ethernet controller
Network interface	10Base-T / 100Base-TX / 1000Base-T
Compatibility standards	<ul style="list-style-type: none"> • IEEE 802.3 Ethernet interface for 10BASE-T • IEEE 802.3ab Ethernet interface for 1000BASE-T • IEEE 802.3u Ethernet interface for 100BASE-TX
Manageability	<ul style="list-style-type: none"> • NC-SI, SMBus • PXE, iSCSI boot
Virtualization acceleration	<ul style="list-style-type: none"> • Virtual Machine Device Queues (VMDq) • PCI-SIG SR-IOV implementation
Connector	RJ-45
Supported cable type	CAT 5e wire

Memory specifications and population

Item	Description
Supported memory types	<ul style="list-style-type: none"> • Registered DDR3 800 / 1066 / 1333 / 1600 / 1866 MHz • Unbuffered DDR3 800 / 1066 / 1333 / 1600 / 1866 MHz • Registered DDR3L 1066 / 1333 / 1600 MHz • Unbuffered DDR3L 1066 / 1333 / 1600 MHz <p>NOTE: Acer does not qualify mixed memory configurations of memory type, capacity or make.</p> <p>Intel Xeon E5-2600 v2 series processors required for speeds of 1866 MHz</p>
Population	Population per CPU by DIMM type listed below.

NOTE: Support for 16 / 32 GB DIMMs may vary by regional availability.

A CPU must be populated for memory to be read.

Memory support and population

RDIMM support

Ranks Per DIMM & Data Width	Memory Capacity Per DIMM [1]			RDIMM Speed (MT / s) and Voltage Validated for <i>Short Length PDG</i> by Slot Per Channel (SPC) and DIMM Per Channel (DPC) [2,3,4]											
				1 Slot per Channel		2 Slots per Channel				3 Slots per Channel					
				1 DPC		1 DPC		2 DPC		1 DPC		2 DPC		3 DPC	
				1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8	1GB	2GB	4GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	800	800, 1066
DRx8	2GB	4GB	8GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	800	800, 1066
SRx4	2GB	4GB	8GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	800	800, 1066
DRx4	4GB	8GB	16GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	800	800, 1066
QRx8	4GB	8GB	16GB	800	800, 1066	800	800, 1066	800	800	800	800, 1066	800	800		
QRx4	8GB	16GB	32GB	800	800, 1066	800	800, 1066	800	800	800	800, 1066	800	800		

UDIMM support

Ranks Per DIMM & Data Width	Memory Capacity Per DIMM [1]			UDIMM Speed (MT / s) and Voltage Validated by Slot Per Channel (SPC) and DIMM Per Channel (DPC) [2,3,4]									
				1 Slot per Channel		2 Slots per Channel				3 Slots per Channel			
				1 DPC		1 DPC		2 DPC		1 DPC		2 DPC	
				1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
SRx8 Non-ECC	1GB	2GB	4GB		1066, 1333, 1600, 1866		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600
DRx8 Non-ECC	2GB	4GB	8GB		1066, 1333, 1600, 1866		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600
SRx16 Non-ECC	512MB	1GB	2GB		1066, 1333, 1600, 1866		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600		1066, 1333, 1600
SRx8 ECC	1GB	2GB	4GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600
DRx8 ECC	2GB	4GB	8GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600	1066, 1333	1066, 1333, 1600

LRDIMM support

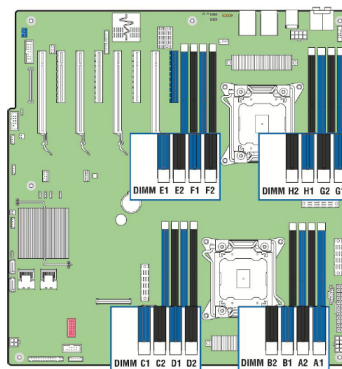
Ranks Per DIMM & Data Width	Memory Capacity Per DIMM [1,2]		LR-DIMM Speed (MT / s) and Voltage Validated by Slot Per Channel (SPC) and DIMM Per Channel (DPC) [3,4,5,6]											
			1 Slot per Channel		2 Slots per Channel				3 Slots per Channel					
			1 DPC		1 DPC		2 DPC		1 DPC		2 DPC		3 DPC	
			1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V	1.35V	1.5V
QRx4 (DDP) [7]	16GB	32GB	1066, 1333, 1600	1066, 1333, 1600, 1866	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066, 1333, 1600	1066	1066
8Rx4 (QDP) [7]	32GB	64GB	1066	1066	1066	1066	1066	1066	1066	1066	1066	1066	1066	1066

Memory Population Rules

Each processor provides four banks of memory, each capable of supporting up to 2 DIMMs.

- DIMMs are organized into physical slots on DDR3 memory channels that belong to processor sockets.
- The memory channels from processor socket 1 are identified as Channel A, B, C and D. The memory channels from processor socket 2 are identified as Channel E, F, G and H.
- The silk screened DIMM slot identifiers on the board provide information about the channel, and therefore the processor to which they belong. For example, DIMM_A1 is the first slot on Channel A on processor 1; DIMM_E1 is the first DIMM socket on Channel E on processor 2.
- The memory slots associated with a given processor are unavailable if the corresponding processor socket is not populated.
- A processor may be installed without populating the associated memory slots provided a second processor is installed with associated memory. In this case, the memory is shared by the processors. However, the platform suffers performance degradation and latency due to the remote memory.
- Processor sockets are self-contained and autonomous. However, all memory subsystem support (such as Memory RAS, Error Management) in the BIOS setup is applied commonly across processor sockets.

DIMM slot layout



Altos T350 F2 Specifications



Memory Identification

Generally, there are some memory information printed on the label of DIMM, but different vendor may have different format. For example:

4 GB 2Rx4 PC3-10600R xx xx xxx

1. Density

- 4 GB, 8 GB, 16 GB

2. Rank

- 1R = Single Rank
- 2R = Dual Rank
- 4R = Quad Rank
- Note: if any quad rank DIMM is used, maximum only 2 DIMM per channel can be supported

3. Bit Organization

- This platform supports x4 and x8
- Note: It's not recommended to mix DIMM with different bit organization in one system.

4. Speed

- PC3 – 6400 => DDR3-800
- PC3 – 8500 => DDR3-1066
- PC3 – 10600 => DDR3-1333
- PC3 – 12800 => DDR3-1600
- PC3 – 15000 => DDR3-1866

Graphics Specifications

Emulex Pilot-III Server Management Controller

Memory: 16 MB dedicated, 128 MB shared

Main Features

- Integrated Graphics Core with 2D Hardware accelerator
- DDR-2/3 memory interface supports up to 256 MB of memory
- Supports all display resolutions up to 1600 x 1200 16bpp @ 60 Hz
- High speed Integrated 24-bit RAMDAC

Supported video modes

2D Mode	Refresh Rate (Hz)	2D Video Mode Support		
		8 bpp	16 bpp	32 bpp
640x480	60, 72, 75, 85, 90, 100, 120, 160, 200	Supported	Supported	Supported
800x600	60, 70, 72, 75, 85, 90, 100, 120, 160	Supported	Supported	Supported
1024x768	60, 70, 72, 75, 85, 90, 100	Supported	Supported	Supported
1152x864	43, 47, 60, 70, 75, 80, 85	Supported	Supported	Supported
1280x1024	60, 70, 74, 75	Supported	Supported	Supported
1600x1200**	60	Supported	Supported	Supported

Altos T350 F2 Specifications



Power specifications

Platinum-certified power supplies (1200 W or 750 W)

Parameter:	Min	Rated	Max	Start up Vac	Power off Vac
110 Vac:	90 Vrms	100-127 Vrms	140 Vrms	85 Vac ± 4 Vac	70 Vac ± 5 Vac
220 Vac:	180 Vrms	200-240 Vrms	264 Vrms		
Frequency:	47 Hz	50/60 Hz	63 Hz		

AC input power factor

Output power:	10% load	20% load	50% load	100% load
Power factor:	>0.65	>0.80	>0.90	>0.95

Tested at 230 Vac, 50 Hz and 60Hz and 115VAC, 60 Hz

Efficiency

Loading:	100%	50%	20%	10%
Minimum efficiency:	91%	94%	90%	82%

AC Line Inrush

Shall not exceed 55 A peak

AC Line Dropout/ Holdup

Loading:	70%
Holdup time:	12 msec

Acer server software utilities

Smart Setup 2.2

Easy deployment provided by the latest version of Acer's Smart Setup. Smart Setup is available both in box as a driver packed installation DVD or a downloadable file to be put into a USB 2.0 device, and eases the deployment of Acer servers for any certified OS. Through its unique interface, users may select to have all the correct drivers be pre-deployed for the OS of their choosing, as well as setup hardware RAID devices, BMC settings (where available), and even clone the pre-settings to a bootable USB device to ease mass server deployments.

Smart Console v2

Web-based management utility to simplify system management with embedded BMC, system monitoring and alerting, event handling, remote power control and KVM-over-IP. Smart Console is OS independent and offers virtual media through floppy, ODD, and removable disk.

Smart Server Manager v1.2

Offering 24-7 monitoring for system health and performance

- Delivers proactive event management features including system event logging, event handling from e-mail and SNMP Trap (PET) alerting
- Monitors onboard hardware, operating systems and virtual machines
- Allows remote control from KVM and Power control
- Satisfies management in web-based UI, role-based administration, and automated management scripts
- Remote firmware deployment and scheduled updates

Altos T350 F2 Specifications

- Customizable BIOS settings and deployment to networked nodes
- Optional power-capping functionality for Acer servers with Intel® Xeon processors E3 or E5 families

Available options

Processors (up to 2)

Intel® Xeon® processor (Twelve Core)

- E5-2697 v2 (30 MB L3 cache, 2.7 GHz, DDR3 1866/1600/1333/1066 MHz, 130 W)
- E5-2695 v2 (30 MB L3 cache, 2.4 GHz, DDR3 1866/1600/1333/1066 MHz, 115 W)

Intel® Xeon® processor (Ten Core)

- E5-2690 v2 (25 MB L3 cache, 3.0 GHz, DDR3 1866/1600/1333/1066 MHz, 130 W)
- E5-2680 v2 (25 MB L3 cache, 2.8 GHz, DDR3 1866/1600/1333/1066 MHz, 115 W)
- E5-2670 v2 (25 MB L3 cache, 2.5 GHz, DDR3 1866/1600/1333/1066 MHz, 115 W)
- E5-2660 v2 (25 MB L3 cache, 2.2 GHz, DDR3 1866/1600/1333/1066 MHz, 95 W)
- E5-2650L v2 (25 MB L3 cache, 1.7 GHz, DDR3 1866/1600/1333/1066 MHz, 70 W)

Intel® Xeon® processor (Eight Core)

- E5-2650 v2 (20 MB L3 cache, 2.6 GHz, DDR3 1866/1600/1333/1066 MHz, 95 W)
- E5-2640 v2 (20 MB L3 cache, 2.0 GHz, DDR3 1866/1600/1333/1066 MHz, 95 W)
- E5-2690 (20 MB L3 cache, 2.9 GHz, DDR3 1600/1333/1066 MHz, 135 W)
- E5-2680 (20 MB L3 cache, 2.7 GHz, DDR3 1600/1333/1066 MHz, 130 W)
- E5-2670 (20 MB L3 cache, 2.6 GHz, DDR3 1600/1333/1066 MHz, 115 W)
- E5-2665 (20 MB L3 cache, 2.4 GHz, DDR3 1600/1333/1066 MHz, 115 W)
- E5-2660 (20 MB L3 cache, 2.2 GHz, DDR3 1600/1333/1066 MHz, 95 W)
- E5-2650 (20 MB L3 cache, 2.0 GHz, DDR3 1600/1333/1066 MHz, 95 W)
- E5-2650L (20 MB L3 cache, 1.8 GHz, DDR3 1600/1333/1066 MHz, 70 W)

Intel® Xeon® processor (Six Core)

- E5-2630 v2 (15 MB L3 cache, 2.6 GHz, DDR3 1866/1600/1333/1066 MHz, 80 W)
- E5-2630L v2 (15 MB L3 cache, 2.4 GHz, DDR3 1600/1333/1066 MHz, 60 W)
- E5-2620 v2 (15 MB L3 cache, 2.1 GHz, DDR3 1866/1600/1333/1066 MHz, 80 W)
- E5-2667 (15 MB L3 cache, 2.9 GHz, DDR3 1600/1333/1066 MHz, 130 W)
- E5-2640 (15 MB L3 cache, 2.5 GHz, DDR3 1333/1066 MHz, 95 W)
- E5-2630 (15 MB L3 cache, 2.3 GHz, DDR3 1333/1066 MHz, 95 W)
- E5-2620 (15 MB L3 cache, 2.0 GHz, DDR3 1333/1066 MHz, 95 W)
- E5-2630L (15 MB L3 cache, 2.0 GHz, DDR3 1333/1066 MHz, 60 W)

Intel® Xeon® processor (Quad Core)

- E5-2609 v2 (10 MB L3 cache, 2.5 GHz, DDR3 1866/1600/1333/1066 MHz, 80 W)
- E5-2603 v2 (10 MB L3 cache, 1.8 GHz, DDR3 1866/1600/1333/1066 MHz, 80 W)
- E5-2643 (10 MB L3 cache, 3.3 GHz, DDR3 1600/1333/1066 MHz, 130 W)
- E5-2609 (10 MB L3 cache, 2.4 GHz, DDR3 1066 MHz, 80 W)
- E5-2603 (10 MB L3 cache, 1.8 GHz, DDR3 1066 MHz, 80 W)

Intel® Xeon® processor (Dual Core)

- E5-2637 (5 MB L3 cache, 3.0 GHz, DDR3 1600/1333/1066 MHz, 80 W)

Altos T350 F2 Specifications



Memory

Memory type	Registered / Unbuffered DDR3 or DDR3L ECC memory
Capacities	4 / 8 / 16 / 32 GB DIMMs Registered 4 / 8 GB DIMMs Unbuffered
DIMM number	16
Max memory	512 GB (128 GB unbuffered)

Note: 32 and 16 GB DIMM availability may vary by region.

Note: 3 DIMM per channel is only supported by single rank and dual rank RDIMM. For UDIMM and quad rank RDIMM, maximum two DIMMs per channel.

Hard drives

Type	Interface, bandwidth	Capacities (RPM)
Enterprise Nearline SATA, 3.5"	6 Gb/s	500 GB (7.2 K)
		1 TB (7.2 K)
		2 TB (7.2 K)
		3 TB (7.2 K)
		4 TB (7.2 K)
Enterprise Nearline SATA, 2.5"	6 Gb/s	500 GB (7.2 K) 1 TB (7.2 K)
Enterprise SAS, 2.5"	6 Gb/s	300 GB (10 K)
		450 GB (10 K)
		600 GB (10 K)
		900 GB (10 K)
Enterprise Nearline SAS, 3.5"	6 Gb/s	1 TB (7.2 K)
		2 TB (7.2 K)
		3 TB (7.2 K)
		4 TB (7.2 K)
Enterprise SAS, 3.5"	6 Gb/s	300 GB (15 K)
		450 GB (15 K)
		600 GB (15 K)
SSD	6 Gb/s	120 GB
		300 GB

Optical drives

- SuperMulti (DVD ± RW)

RAID cards

Model	Port number	RAID support
LSI® MegaRAID SAS 9240-4i	4 internal ports	0, 1, 5, 10
LSI® MegaRAID SAS 9260-4i** (512 MB DDR2 cache)	4 internal ports	0, 1, 5, 6, 10, 50, 60
LSI® MegaRAID SAS 9261-8i** (512 MB DDR3 cache)	8 internal ports	0, 1, 5, 6, 10, 50, 60
LSI® MegaRAID SAS 9212-4i4e*	4 internal ports, 4 external Mini-	0, 1, 10

Altos T350 F2 Specifications

(512 MB DDR2 cache) SAS ports

*Battery Backup Unit BBU07 available

**Battery Backup Unit BBU08 available

Ethernet network cards and I/O modules

Model	Port number	Bandwidth
Intel® 82599 10 Gigabit Ethernet Controller Dual SFP+ port 10GbE (I/O module)	2	10 Gb/s
Intel® X540-T2 Dual RJ-45 port 10GBASE-T (I/O module)	2	10 Gb/s
Quad port 1GbE IO Module based on Intel® I350 Quad port 1 GbE	4	1 Gb/s
Intel® X520-SR1 server adapter*	1	10 Gb/s
Intel® X520-SR2 server adapter*	2	10 Gb/s
Intel® X520-LR1 server adapter*	1	10 Gb/s

***Note:** Intel's 10GbE cards vary in terms of their connector type. The X520-DA2 is a copper connector for lengths up to 7M, while the X520-SR1/2 is an optical connection for cables up to 550M. The X520-LR1 is for even longer cable lengths up to 10KM.

Fibre Channel HBAs

Model	Port number	Bandwidth
Qlogic® QLE2560	1	8 Gb/s
Qlogic® QLE2562	2	8 Gb/s

InfiniBand

Model	Port number	Bandwidth
Mellanox CX3 FDR	1	56 Gb/s
Mellanox CX3 FDR	2	56 Gb/s

Management module

Model	Function	Management port
Remote Management Module lite	Enables remote iKVM	NIC1
Remote Management Module and dedicated management port	Enables remote iKVM and provides additional dedicated management port	Dedicated management port

Note: All cards marked (I/O module) indicate the card is inserted in the I/O module on the right-hand side of the node. It does not use the standard, low-profile PCIe ×16.

TPM module

Optional TPM module

Altos T350 F2 Specifications



Service and support

Acer Servers offer a comprehensive service suite to take care of daily IT needs. Users can select the 3-year standard warranty or choose extended warranties and services.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

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NOTE: Extension warranty services may vary by country. Please contact Acer authorized resellers for more information.