

# ASEM 6300P-SW2

Fanless Panel PCs with Intel® Raptor Lake platform



- 12.1' and 15' TFT LCD in 4:3 format, 17' and 19' in 5:4 format and 12.1', 15.6', 18.5', 21.5' and 24' in Wide format with up to Full HD resolution
- Aluminium (AF), aluminium True Flat (AT) and stainless steel True Flat (SR) front panels with resistive touchscreen
- Aluminium and True Flat glass front panels with capacitive back-projected multitouch touchscreen (GL)
- Intel® Raptor Lake PCH SoC generation
- Up to 48GB RAM with ECC support (for industrial processors), essential for mission critical and real time applications due to superior reliability and guaranteed data integrity
- Up to 3 simultaneous storage options: M.2 SSD, 2.5' SSD and CFast
- Fanless IPC ensuring operation between 0 and 50 °C without the need for mechanical ventilation
- ATX functionality for remote power on and native support for our new Smart UPS
- 256kB MRAM for saving retention variables (optional)
- Available in SL version with reduced depth, S0 version with the possibility to install additional interfaces, S1 version with one PCIe expansion slot and D2 with 2 extractable SSDs
- BIOS ThinManager® ready pre-installed
- FactoryTalk® Remote Access™ remote support software optional (UBIQUITY compatible)
- FactoryTalk® Optix™ software for HMI and Edge Computing applications (optional)

FT Remote Access™ OPTIONAL  
compatible con UBIQUITY

FT Optix™ OPTIONAL

Windows 11 IoT

ECC

REAL-TIME  
READY

IP69K



(only SR frontal)

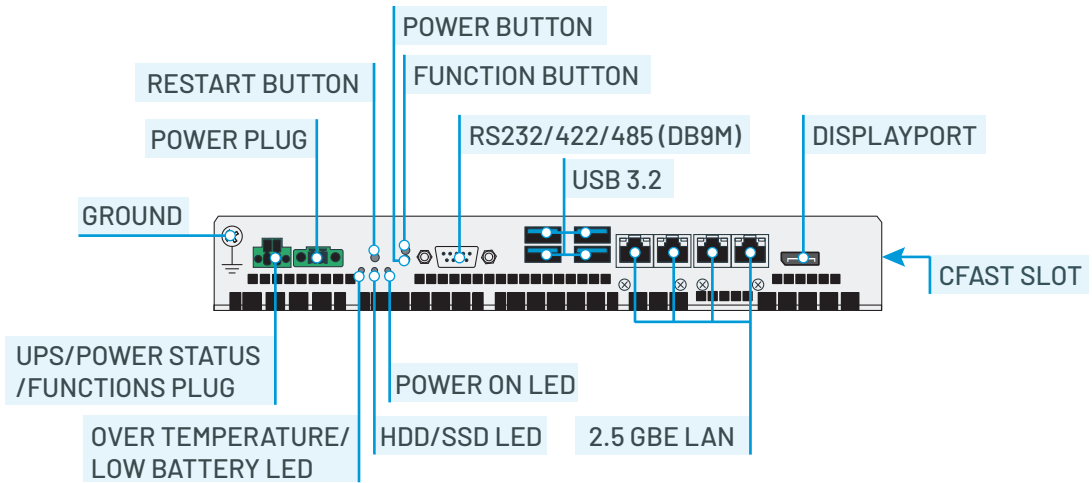
DESIGN  
FOR  
SECURITY



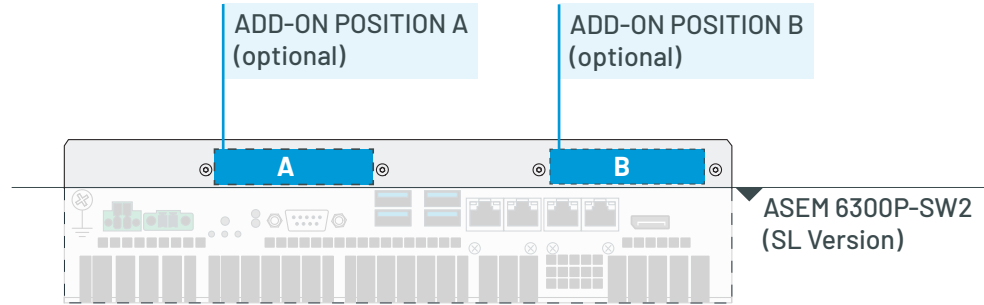
# ASEM 6300P-SW2

## I/O SHIELDS AND ADD-ON BOARDS

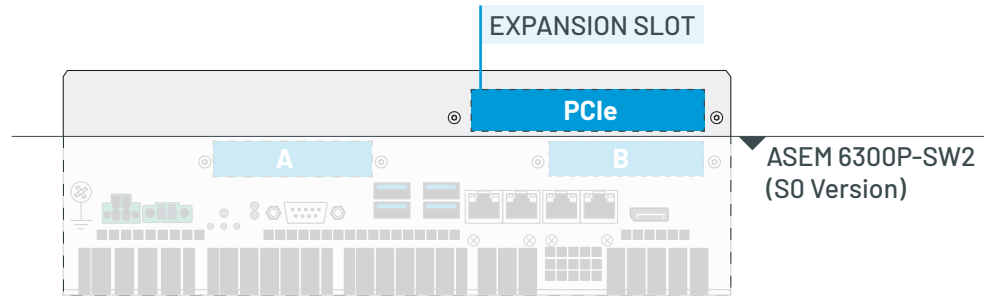
ASEM 6300P-SW2xxxxAA (SL Version)



ASEM 6300P-SW2xxxxAB (S0 Version)

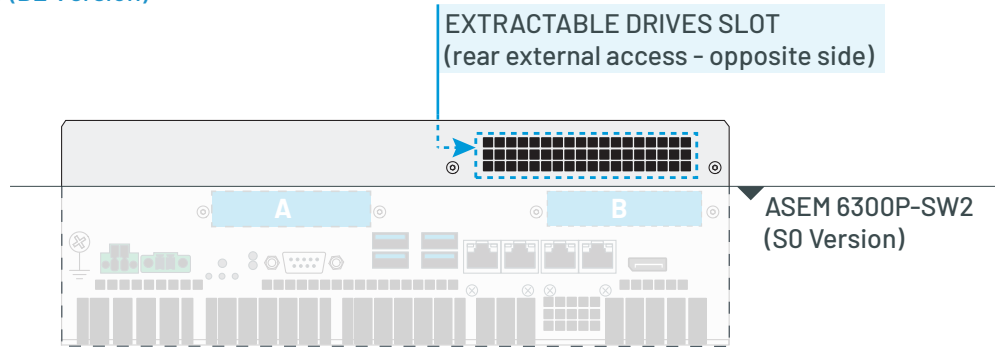


ASEM 6300P-SW2xxxxAC (S1 Version)



## I/O SHIELDS AND ADD-ON BOARDS

ASEM 6300P-SW2xxxxAD (D2 Version)



### POSITION A

- 2x RS232/422/485 isolated (DB9M)
- 2x USB 2.0 (Type-A)
- 1x 2.5 Gigabit Ethernet (RJ45) + 1x USB 2.0 (Type-A)

### POSITION B

- 1x 2.5 Gigabit Ethernet (RJ45)
- 1x RVL (remote video link RJ45)
- 2x RVL (remote video link RJ45)
- 2x DisplayPort++
- 2x USB (Type-C)

## DETAIL - EXTRACTABLE DRIVES SLOT

Extractable drives slot available only for D2 Version



# ASEM 6300P-SW2

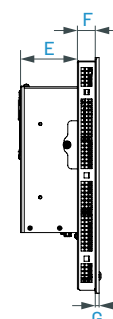
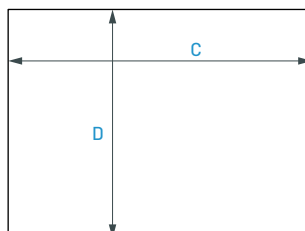
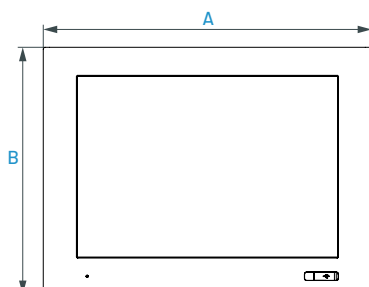
## DIMENSIONS

FRONT VIEW

CUT-OUT

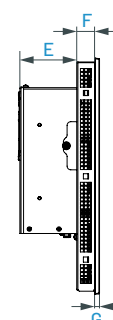
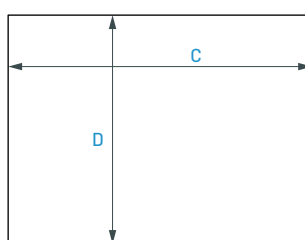
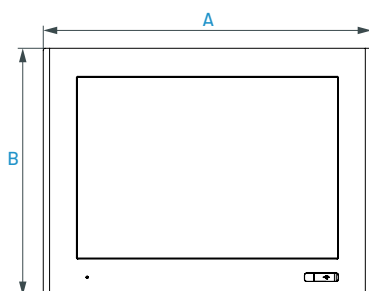
SIDE VIEW

### ASEM 6300P-SW2xxxA (AF 4:3 - 5:4)



LCD		A	B	C	D	E				F	G
						SL	S0	S1	D2		
12.1"	15W	335	270	315	250	45.3	60.1	-	-	18.8	5
	28W					-	60.1	89.3	89.3		
	45W					-	75.1	104.3	104.3		
15"	15W	390	315	370	295	45.3	57.6	-	-	18.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
17"	15W	455	355	435	335	42.8	57.6	-	-	20.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
19"	15W	490	388	470	368	42.8	57.6	-	-	22.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		

### ASEM 6300P-SW2xxxB (AT 4:3 - 5:4)



LCD		A	B	C	D	E				F	G
						SL	S0	S1	D2		
12.1"	15W	335	270	315	250	45.3	60.1	-	-	18.8	5
	28W					-	60.1	89.3	89.3		
	45W					-	75.1	104.3	104.3		
15"	15W	390	315	370	295	42.8	57.6	-	-	18.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
17"	15W	455	355	435	335	42.8	57.6	-	-	20.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
19"	15W	490	388	470	368	42.8	57.6	-	-	22.8	6
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		

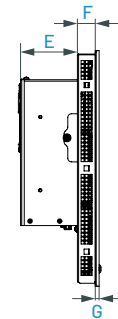
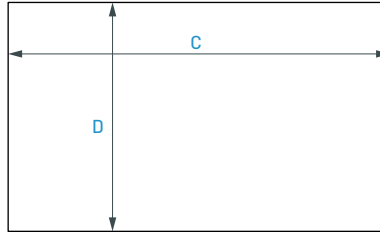
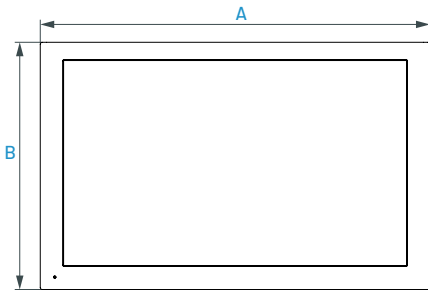
# DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

ASEM 6300P-SW2xxxA (AF 16:9)



LCD	A	B	C	D	E				F	G
					SL	S0	S1	D2		
12.1" wide	15W	216.9	301	203	45.3	60.1	-	-	19.8	5
	28W				-	60.1	89.3	89.3		
	45W				-	75.1	104.3	104.3		
15.6" wide	15W	250.9	388	238	42.8	57.6	-	-	19.8	5
	28W				-	57.6	86.8	86.8		
	45W				-	72.6	101.8	101.8		
18.5" wide	15W	287.9	453	274	42.8	57.6	-	-	19.8	7
	28W				-	57.6	86.8	86.8		
	45W				-	72.6	101.8	101.8		
21.5" wide	15W	325.5	520	312	42.8	57.6	-	-	19.8	7
	28W				-	57.6	86.8	86.8		
	45W				-	72.6	101.8	101.8		
24" wide	15W	357.5	577	344	42.8	57.6	-	-	27.6	7
	28W				-	57.6	86.8	86.8		
	45W				-	72.6	101.8	101.8		

# ASEM 6300P-SW2

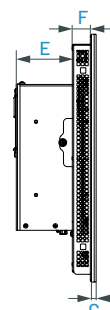
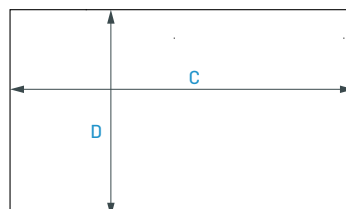
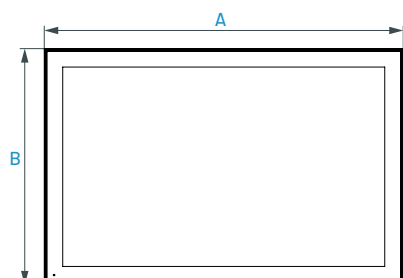
## DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

ASEM 6300P-SW2xxxC (GL 16:9)



LCD	A	B	C	D	E				F	G	
					SL	S0	S1	D2			
12.1" wide	15W	314.9	216.9	301	203	45.3	60.1	-	-	19.8	5
	28W					-	60.1	89.3	89.3		
	45W					-	75.1	104.3	104.3		
15.6" wide	15W	401.4	250.9	388	238	42.8	57.6	-	-	20.5	10.5
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
18.5" wide	15W	467.1	287.9	453	274	42.8	57.6	-	-	20.5	10.5
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
21.5" wide	15W	534.1	325.5	520	312	42.8	57.6	-	-	20.5	10.5
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
24" wide	15W	589.9	357.5	577	344	42.8	57.6	-	-	27.3	10.5
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		

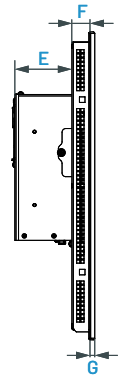
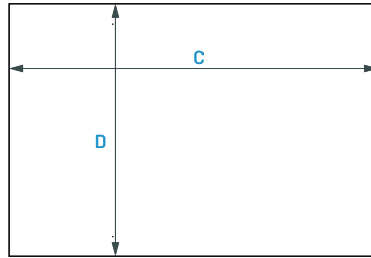
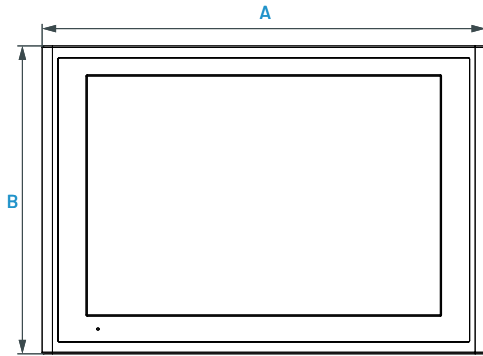
# DIMENSIONS

FRONT VIEW

CUT-OUT

SIDE VIEW

ASEM 6300P-SW2xxxD (SR 16:9)



LCD	A	B	C	D	E				F	G	
					SL	S0	S1	D2			
12.1" wide	15W	323.8	225.8	301	203	45.3	60.1	-	-	16.6	6.2
	28W					-	60.1	89.3	89.3		
	45W					-	75.1	104.3	104.3		
15.6" wide	15W	410.6	260.1	388	238	42.8	57.6	-	-	16.6	6.2
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
18.5" wide	15W	476	296.8	453	274	42.8	57.6	-	-	16.6	6.2
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
21.5" wide	15W	543.5	334.4	520	312	42.8	57.6	-	-	16.6	6.2
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		
24" wide	15W	599.4	367	577	344	42.8	57.6	-	-	22.6	6.2
	28W					-	57.6	86.8	86.8		
	45W					-	72.6	101.8	101.8		

# ASEM 6300P-SW2

## GALLERY



ASEM 6300P-SW2xxA  
(AF) Aluminum Frame



ASEM 6300P-SW2xxB  
(AT) Aluminum TrueFlat



ASEM 6300P-SW2xxC  
(GL) Glass



ASEM 6300P-SW2xxD  
(SR) Stainless Steel



ASEM 6300P-SW2xxxxAA (SL)



ASEM 6300P-SW2xxxxAB (S0)










































ASEM 6300P-SW2xxxxAC (S1)



ASEM 6300P-SW2xxxxAD (D2)

# CPU COMPARISON TABLE

		Single Thread Rating <			> CPU Mark				
		5000			5000	10000	15000	20000	25000
	<b>QT/HT2250</b>		x5-E3930						
			x7-E3950						
	<b>QT/HT2200</b>		J1900						
	<b>6300P-EW1</b>		x6425E						
	<b>6300B-JB1</b>		Celeron 6305E						
			i3-1115G3E						
			i5-1145G7E						
	<b>6300P-SW2 15W</b>		i3-1315UE						
			i5-1345UE						
			i7-1365UE						
	<b>6300P-SW2 28W</b>		i3-1320PE						
			i5-1350PE						
			i7-1370PE						
	<b>6300P-SW2 45W</b>		i3-13300HE						
			i5-13600HE						
			i7-13800HE						

# ASEM 6300P-SW2

## TECHNICAL DATA

		6300P-SW2				
LED backlight TFT LCD		12.1" W - 1280x800 (16:10) 15.6" W - 1920x1080 (16:09) 18.5" W - 1920x1080 (16:09) 21.5" W - 1920x1080 (16:09) 24" W - 1920x1080 (16:09)			12.1" - 1024x768 (4:3) 15" - 1024x768 (4:3) 17" - 1280x1024 (5:4) 19" - 1280x1024 (5:4)	
CUT-OUT		QT			HT	
FRONT USB		-			1x USB 2.0 (Type-A), protected	
FRONT PANEL	Design	Aluminum Frame (AF)	Glass (GL)	Stainless Steel (SR)	Aluminum Frame (AF)	Aluminum TrueFlat (AT)
	Touchscreen	Resistive 5 wires	P-CAP Multitouch	Resistive 5 wires		
	Logo	AB or brandless				
PROTECTION GRADE	IP rating	IP65 - frontal		IP69K - frontal	IP65 - frontal	
	NEMA rating	UL Type 1, 4x (indoor only)		UL Type 1, 4x (indoor only) and 12		
CASE	Installation	Panel mounting				
	Material	Zinc-coated skin pass steel				
PROCESSOR (soldered on-board)	15W (SL/S0 versions)	Intel® Core™ i3-1315UE Intel® Core™ i3-1315URE	1.20GHz (4.50GHz max turbo frequency) • 6cores/8threads • 10MB Intel® Smart Cache			
		Intel® Core™ i5-1345UE Intel® Core™ i5-1345URE	1.25 GHz (4.60GHz max turbo frequency) • 10cores/12threads • 12MB Intel® Smart Cache			
		Intel® Core™ i7-1365UE Intel® Core™ i7-1365URE	1.30GHz (4.90GHz max turbo frequency) • 10cores/12threads • 12MB Intel® Smart Cache			
	28W (S0/S1/D2 versions)	Intel® Core™ i3-1320PE	1.70GHz (4.50GHz max turbo frequency) • 8cores/12threads • 12MB Intel® Smart Cache			
		Intel® Core™ i5-1350PE	1.80GHz (4.60GHz max turbo frequency) • 12cores/16threads • 12MB Intel® Smart Cache			
		Intel® Core™ i7-1370PE	1.90GHz (4.80GHz max turbo frequency) • 14cores/20threads • 24MB Intel® Smart Cache			
	45W (S0/S1/D2 versions)	Intel® Core™ i3-13300HE Intel® Core™ i3-13300HRE	2.1GHz (4.60GHz max turbo frequency) • 8cores/12threads • 12 MB Intel® Smart Cache			
		Intel® Core™ i5-13600HE Intel® Core™ i5-13600HRE	2.70GHz (4.80GHz max turbo frequency) • 12cores/16threads • 18 MB Intel® Smart Cache			
		Intel® Core™ i7-13800HE Intel® Core™ i7-13800HRE	2.5GHz (5.00 GHz max turbo frequency) • 14cores/20threads • 24 MB Intel® Smart Cache			
		Chipset	Intel® Raptor Lake PCH (Platform Controller Hub) • Included into processor chip (SoC)			
	Video Controller	Intel® UHD Graphics integrated in Intel® Core™ i3 Intel® Iris® X® Graphics integrated in Intel® Core™ i5 and i7				
TPM		Intel® PTT (TPM integrated) Discrete TPM (optional)				
SYSTEM MEMORY RAM		8GB (DDR5-4800) 16GB (DDR5-4800) 32GB (DDR5-4800) 48GB (DDR5-4800)				
MASS STORAGE	CFast	1x bootable CFast SATA III slot onboard with external access (up to 240GB)				
	M.2 SSD	1x onboard connector for direct insertion of M.2 NVMe PCIe SSD (up to 2TB)				
	2.5 SATA SSD	1x onboard connector for 2.5 SATA III SSD with internal installation kit (up to 1TB) *SL only 2x onboard connector for 2.5 SATA III SSD with external installation kit (up to 1TB) *S0/S1/D2 only				

# TECHNICAL DATA

		6300P-SW2
INTERFACES	LAN	4x 2.5 Gigabit Ethernet (RJ45)
	USB	4x USB 3.2 Gen2 (Type-A) 10 Gbps
	SERIAL	1x RS232/RS422/RS485 (DB9M) isolated
	VIDEO	1x DisplayPort++ v1.4a
ADD-ON INTERFACES (optional) not available for SL version	Position A (max 1) 60pin	1x 2.5G Ethernet + 1x USB 2.0 (Type-A) 2x Isolated Serial Multistandard RS232/RS422/RS485 (DB9M) 2x USB3.0 (Type-A)
	Position B (max 1) 26 pin	1x 2.5 Gigabit Ethernet (RJ45) 1x RVL (remote video link RJ45) 2x RVL (remote video link RJ45) 2x DisplayPort++ v1.4a 2x USB 3.2 (Type-C)
EXPANSION SLOTS	only S1 version	1x PCIe x4, on riser card
NOVRAM (optional)		512kB MRAM module for retentive variables
POWER SUPPLY INPUT		24VDC (18÷32VDC) isolated
POWER SUPPLY ADD-ON FUNCTIONS (selectable from BIOS)		Remote Power Button 1x output signal Power Status + 1x input signal System Off
BATTERY		1x CR2032 Internal access
O.S. CERTIFIED		Microsoft Windows 10 IoT Enterprise LTSC 2021 64bit Microsoft Windows 11 IoT Enterprise LTSC 2024 64bit
OPERATING TEMPERATURE		0°C ÷ 50°C
STORAGE TEMPERATURE		-20°C ÷ 65°C
OPERATING/STORAGE RELATIVE HUMIDITY		20% ÷ 90% RH (non-condensing)
MAX. ALTITUDE, OPERATING		2000 m (6562 ft)
VIBRATION	Frequency range	10.00 Hz to 500.00 Hz
	Sweep rate	1 octave / min
	Number of sweep cycles	5 / axis (56°27")
	Displacement	0.3048 mm p-p (10.00 Hz to 57 Hz)
	Acceleration	0-p: 2.0 g (57 Hz to 500.00 Hz)
SHOCK	Operating	15 g (acceleration) at 11 ms (duration)
	Non Operating	30 g (acceleration) at 11 ms (duration)
Pollution Degree		2
APPROVALS		CE FCC UKCA cULus Listed Cmim - Morocco KCC - Korea RCM - Australia and New Zealand REACH RoHS compliant

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