


**Industrial Automation - Products & Configurations**

PR4047 BASIC SYSTEM	
Basic configuration	Intel® Pentium™ G3260 3,30 GHz dual core • 4 GB RAM • Power supply 230V AC 400W • 50cm depth • Slot 4 x PCI • 2x PCIe x16 • 1x PCIe x8 • 12 months warranty

PR4147 BASIC SYSTEM	
Basic configuration	Intel® Pentium™ G3260 3,30 GHz dual core • 4 GB RAM • Power supply 230V AC 400W • 46,5cm depth • Slot 4 x PCI • 2x PCIe x16 • 1x PCIe x8 • 12 months warranty

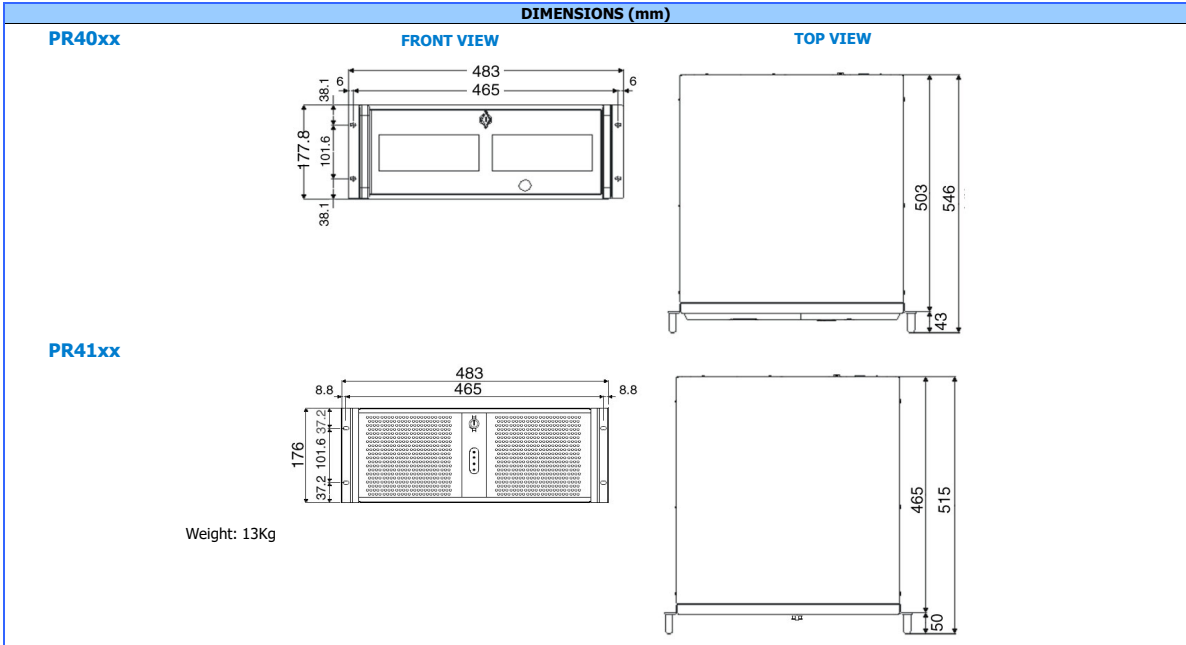
<b>PROCESSOR</b>	Intel® Pentium™ G3260 • 3,30 GHz • 2 cores • 2 threads • 3MB cache • 64bit • 22nm • Socket LGA1150 Intel® Core™ i3-4170 • 3,7 GHz • 2 cores • 4 threads • 3MB cache • 64bit • 22nm • Socket LGA1150 Intel® Core™ i5-4690 • 3,5 GHz (3,9 GHz Turbo) • 4 cores • 4 threads • 6MB cache • 64bit • 22nm • Socket LGA1150 Intel® Core™ i7-4790 • 3,6 GHz (4,0 GHz Turbo) • 4 cores • 8 threads • 8MB cache • 64bit • 22nm • Socket LGA1150
<b>RAM MEMORY</b>	4GB • DDR3, 2 x 2GB DIMM modules PC6400 8GB • DDR3, 2 x 4GB DIMM modules PC3-12800 16GB • DDR3, 2 x 8GB DIMM modules PC3-12800 32GB • DDR3, 4 x 8GB DIMM modules PC3-12800
<b>POWER SUPPLY</b>	Input voltage 110÷230V AC • 400W, autoranging Input voltage 110÷230V AC • 650W, autoranging Input voltage 110÷230V AC • 2 x 500W, autoranging • redundant <b>ONLY FOR 4047</b>

OPTIONS	
<b>SSD mSATA</b>	SSD mSATA (Solid State Disk) • max 1
<b>SSD 2,5" &gt; note 1</b>	Installation kit for 2 x SSD 2,5" SATA in a 3,5" bay (SSD not included) Extractable drawers for 2 x SSD 2,5" SATA in a 3,5" bay (SSD not included) SSD 2,5" (Solid State Disk)
<b>HDD 3,5" &gt; note 1</b>	HDD 3,5" SATA Installation kit for 1 x HDD 3,5" SATA in a 5,25" bay (HDD not included) Extractable drawer for 1 x HDD 3,5" SATA in a 5,25" bay • Hot-Swap function supported (HDD not included)
<b>DVD DRIVES</b>	DVD-RW SATA 22x16x48x40x • H=1,65" • black bezel
<b>WARRANTY EXTENSION</b>	Warranty extension to 18 month Warranty extension to 24 months Warranty extension to 36 months

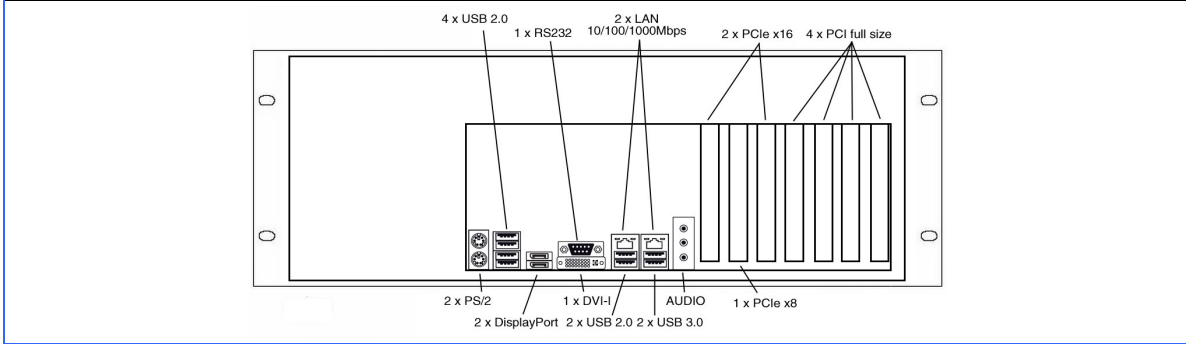
NOTES	
For configurations see dedicated section in the next page.	
<b>1:</b> RAID 0, 1: min 2 x HDD 3,5" or 2 x SSD 2,5".	
RAID 5: min 3 x HDD 3,5" (no SSD).	
RAID 10: 4 x HDD 3,5" (no SSD).	

TECHNICAL SPECIFICATIONS	
Case	4U 19" rack mount
Overall dimensions & weight	See details on the related section
Drive bays	3 x 5,25" h=1,65" • 1 x 3,5" h=1"
Motherboard	ATX format • D3236-S (Fujitsu)
Intel platform	Processor Intel® Pentium™ and Intel® Haswell™ fourth generation processors
Chipset	Intel® Q87 chipset
Operating System	O.S. certified by ASEM: Microsoft Windows 10 IoT Enterprise 64bit • Microsoft Windows 8 32/64bit • Microsoft Windows 7 32/64bit O.S. not supported by Intel platform: Other operating systems, such as Linux, VxWorks, QNX, etc., have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility Microsoft Windows xp • Windows 2000 • Windows 98
Graphic accelerator engine	Intel® HD Graphics integrated in Pentium processor, 650MHz • DirectX 11/12 and OpenGL 4.3 support Intel® HD Graphics 4400 integrated in Core i3 processor, 350MHz • DirectX 11/12 and OpenGL 4.3 support Intel® HD Graphics 4600 integrated in Core i5 and i7 processors, 350MHz • DirectX 11.2/12 and OpenGL 4.3 support
Video controller	Integrated into processor with independent external digital I/F and into chipset with analog I/F • Multi display support (max 3)
Video RAM	Up to 128 MB fixed and 256 MB dynamically managed
System memory	DDR3 type 1066/1333/1600 • 4 DIMM 240 pin modules • min 1GB • max 32GB
Mass storage interfaces	1 x mSATA III 6Gbit/s • 6 x SATA III 6Gbit/s
RAID controller	Integrated in Intel® Q87 chipset with RAID 0, 1, 10, 5 support on SATA III
Audio	Realtek ALC671, 5.1-channel, High Definition Audio Codec
Ethernet controller	Intel® I210AT, Intel® I217LM with support iAPM, WoL, Magic Packet™ and v-Pro
Bus expansions slots	4 x PCI full size (32bit, 33MHz, Rev.2.3) • 1 x PCIe x16 (16 Lanes, Gen2) • 1 x PCIe x16 (4 Lanes, Gen2) • 1 x PCIe x8 (1 Lane, Gen2)
Front access interfaces	2 x USB 2.0/1.1
Rear Interfaces on MB	2 x PS/2 (K&M) • 2 x Ethernet 10/100/1000Mbps (RJ45) • 1 x DVI-I (max resolution analog/digital 1920x1200), 2 x DisplayPort (max resolution 3840x2160) • 1 x RS-232 (DB9M) • 2 x USB 3.0 • 6 x USB 2.0 • Audio Mic In / Line in / Line out
Rear interfaces (not on MB)	1 x LPT EPP, ECP bidirectional (DB25) • 1 x RS232 • 1 x USB 2.0 for internal dongle
Environmental specifications	24x7 operation • Operating temperature: 0° ÷ +40°C • Storage temperature: -20° ÷ +60°C • humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1)
Standard warranty	12 months • Warranty management by ASEM headquarters

**DIMENSIONS (mm)**



**EXPANSION SLOTS AND COMMUNICATION PORTS - ASEM NATIVE CONFIGURATION**



**HDD/SSD/DVD CONFIGURATIONS IN 5,25" and 3,5" BAYS**

FRONT ACCESS	INTERNAL - PR40xx	INTERNAL - PR41xx
5,25" DVD / HDD+KH / HDD+BH	3,5" HDD	3,5" HDD / 2xSSD+KS
5,25" DVD / HDD+KH / HDD+BH	3,5" HDD	3,5" HDD / 2xSSD+KS
5,25" DVD / HDD+KH		3,5" HDD / 2xSSD+KS
3,5" HDD / 2xSSD+KS / 2xSSD+ BS		

**Legenda**

- DVD DVD-RW SATA
- HDD HDD 3,5" SATA
- KH Installation kit 1 x HDD 3,5" in 5,25" bay
- BH Extractable drawer for 1 x HDD 3,5" in 5,25" bay
- SSD SSD 2,5" SATA
- KS Installation kit 2 x SSD 2,5" in 3,5" bay
- BS Extractable drawer for 2 x SSD 2,5" in 3,5" bay