



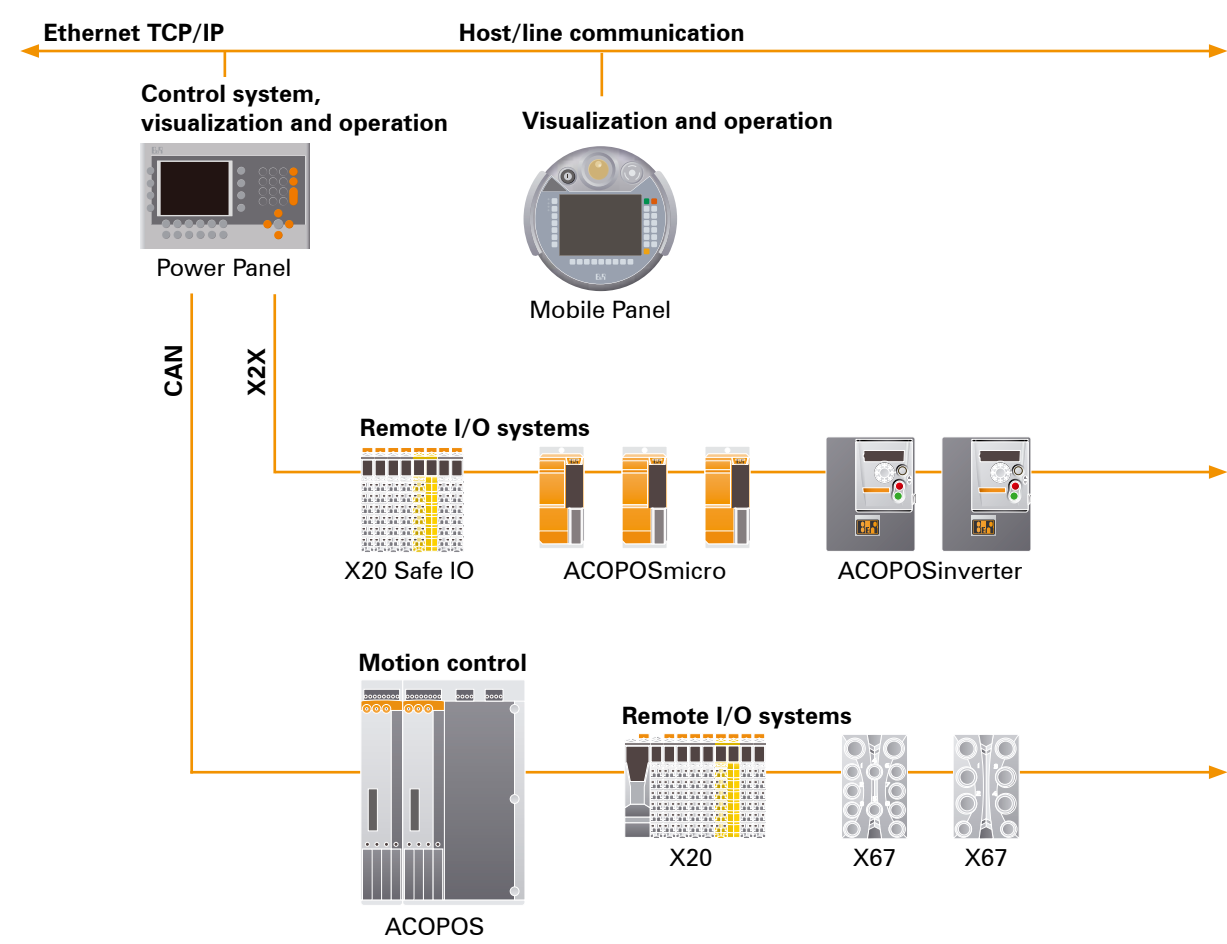
**CORPORATE HEADQUARTERS**  
 Bernecker + Rainer Industrie-Elektronik Ges.m.b.H.  
 B&R Strasse 1  
 5142 Eggelsberg  
 Austria  
 Tel.: +43 (0) 77 48 / 65 86 - 0  
 Fax: +43 (0) 77 48 / 65 86 - 26  
 info@br-automation.com  
 www.br-automation.com

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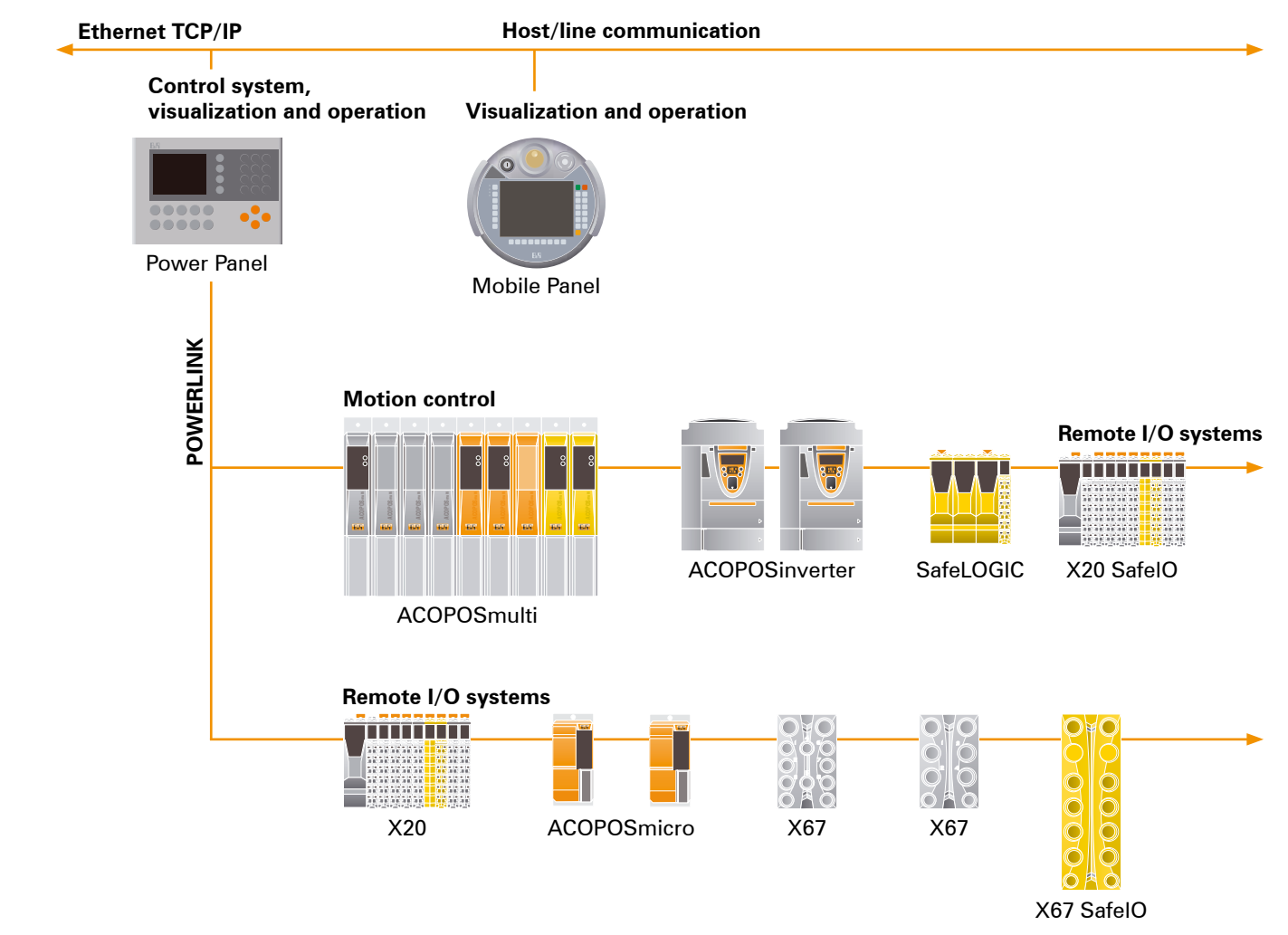


## System Overview Visualization and Operation

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**PP15**  
4x20 characters

**PP35**  
160x80 pixels

**PP45**  
5.7" QVGA

**PP65**  
3.5/5.7" QVGA

**PP320/420**  
5.7" QVGA/VGA

**PP451**  
5.7" QVGA

**PP452**  
5.7" QVGA

**PP320/420**  
10.4" VGA

**PP480**  
10.4" VGA

**PP481**  
10.4" VGA

**PP482**  
10.4" VGA

**PP320**  
12.1" SVGA

**PP320/420**  
15" XGA

**PP480**  
15" XGA

**PP481**  
15" XGA

<b>Display/Resolution</b>	LCD b/w 4x20 characters	LCD b/w 160x80 pixels	LCD b/w QVGA LCD color QVGA	TFT color QVGA	LCD b/w QVGA LCD color QVGA TFT color VGA	LCD color QVGA	LCD color QVGA	TFT color VGA	TFT color VGA	TFT color VGA	TFT color VGA	TFT color SVGA	TFT color XGA	TFT color XGA	TFT color XGA
<b>Keys/Touch</b>	up to 26 keys	up to 26 keys	8 function keys Touch Screen	up to 30 keys Touch Screen	Touch Screen	16 function keys 6 softkeys 20 system keys	20 function keys 20 system keys	Touch Screen	12 function keys 10 softkeys Touch Screen	28 function keys 10 softkeys 20 system keys Touch Screen	44 function keys 20 system keys Touch Screen	Touch Screen	Touch Screen	20 function keys 12 softkeys Touch Screen	20 function keys 12 softkeys 92 system keys Touch Screen
<b>Processor</b>	Freescaler (Motorola) 68332 16 MHz clock rate	Freescaler (Motorola) 68332 16 MHz clock rate	AMD SC520 100 MHz clock rate 66 MHz SDRAM interface 16 kB L1 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache	AMD LX800 500 MHz clock rate 400 MHz DDR interface 128 kB L2 cache
<b>Memory</b>	300 kB SRAM 1024 kB FPROM	300 kB SRAM 1024 kB FPROM	64 MB DRAM 48 kB SRAM CompactFlash slot	128 MB DDR DRAM 256 kB SRAM CompactFlash slot	64/256 MB DDR RAM 512 kB SRAM CompactFlash slot	512 kB SRAM CompactFlash slot	512 kB SRAM CompactFlash slot	64/256 MB DDR RAM 512 kB SRAM CompactFlash slot	64 MB DDR RAM 512 kB SRAM CompactFlash slot	64 MB DDR RAM 512 kB SRAM CompactFlash slot	64 MB DDR RAM 512 kB SRAM CompactFlash slot	256 MB DDR RAM CompactFlash slot	64/256 MB DDR RAM 512 kB SRAM CompactFlash slot	64 MB DDR RAM 512 kB SRAM CompactFlash slot	64 MB DDR RAM 512 kB SRAM CompactFlash slot
<b>Onboard I/O</b>	up to 16 digital inputs up to 16 digital outputs up to 4 analog inputs up to 4 analog outputs	up to 16 digital inputs up to 16 digital outputs up to 4 analog inputs up to 4 analog outputs	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Interfaces</b>	1x RS232 1x CAN	1x RS232 1x CAN	2x USB 2.0 1x ETH 10/100 1x X2X	2x USB 2.0 1x ETH 10/100 1x X2X or 1x POWERLINK	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100	1x RS232 2x USB 2.0 1x ETH 10/100
<b>Expansion Options</b>	-	-	1 interface module	1 interface module	up to 2 aPCI slots	1 aPCI slot	1 aPCI slot	up to 2 aPCI slots	1 aPCI slot	1 aPCI slot	1 aPCI slot	-	1 aPCI slot	up to 2 aPCI slots	1 aPCI slot
<b>Power Supply</b>	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
<b>Variants</b>	embedded	embedded	embedded	embedded	embedded/BIOS	embedded	embedded	embedded/BIOS	embedded	embedded	embedded	embedded/BIOS	embedded/BIOS	embedded	embedded