	X2 base 5	X2 base 7	X2 base 10
General description			
Part number	630005105	630005205	630005305
Certifications			
General	CE, FCC, KCC		
Marine	–		
UL	UL 61010-2-201		
Mechanical			
Mechanical size	170 × 107 × 49 mm	196 × 146 × 52 mm	284 × 187 × 52 mm
Touch type	Resistive		
Cut-out size	161 × 93 mm	186 × 136 mm	275 × 177 mm
Weight	0.5 kg	0.7 kg	1.3 kg
Housing material	Plastic (PC+ABS), Gray		
Power			
Input voltage	24 V DC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for class II power supplies.		
Power consumption	6W	9.6W	10.8W
Input fuse	Internal DC fuse		
System			
CPU	ARM9 400 MHz		
RAM	128 MB		
FLASH	256 MB, 200 MB free for application storage		
Display			
Size diagonal	5" diagonal	7" diagonal	10.1" diagonal
Resolution	800 × 480 pixels		
Backlight	LED Backlight		
Backlight life time	20 000 hours		
Backlight brightness	300 cd/m²	400 cd/m²	350 cd/m²
Backlight dimming	Industrial Dimming		
Display type	TFT-LCD with LED backlight		
Display pixel error	Class I (ISO9241-307)		
Communication serial			
Number of serial ports	2 Port 9pin DSUB		
Serial port 1	RS 232 (RTS/CTS)		
Serial port 2	RS422/485		
Serial port 3	RS 232		
Serial port 4	RS 485		
Ethernet communication			
Number of ethernet ports	1		
Ethernet port 1	1 × 10/100 Base-T (shielded RJ45)		
Ethernet port 2	–		
Expansion interface			
Expansion port	No		
SD card	No		
USB	1× USB 2.0 500mA		
Environmental			
Operating temperature	-10°C to +50°C		
Storage temperature	-20° to +60°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Sealing back	IP20		
Humidity	5% – 85% non-condensed		

	X2 marine 7 (HB, SC, HB SC)	X2 marine 15 (HB, SC, HB SC)
General description		
Part number	630002505 (HB: 630008705, SC: 630008605, HB SC: 630008805)	640003305 (HB: 640003505, SC: 640009005, HB SC: 640009405)
Certifications*		
General	CE, FCC, KCC	
Marine	DNV, KR, GL, LR, ABS, CCS, EN60945	
UL	UL 61010-2-201	
Mechanical		
Mechanical size	204 × 143 × 50mm	410 × 286 × 61mm
Touch type	Resistive	
Cut-out size	189 × 128mm	394 × 270mm
Weight	0.8 kg	3.85 kg
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 V DC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for class II power supplies.	
Power consumption	14.4W (HB: 21.6W, SC: 14.4W, HB, SC: 21.6W)	31.2W (HB: 33.6W, SC: 31.2W, HB SC: 33.6W)
Input fuse	Internal DC fuse	
System		
CPU	i.MX6Solo Single Cortex-A9 1.0GHz 512kBL2cache (HB, HB SC: Quad ARM Cortex-A9, SC: Dual Cortex-A9)	i.MX6Quad, Quad ARM Cortex-A9 1.0GHz 1MBL2cache
RAM	512 MB (HB, HB SC: 2 GB, SC: 1 GB)	2 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application storage	
Display		
Size diagonal	7" diagonal	15.4" diagonal
Resolution	800 × 480 pixels	1280 × 800 pixels
Backlight	LED Backlight	
Backlight life time	50 000 hours	50 000 hours (HB, HB SC: 30000 hours)
Backlight brightness	500 cd/m² (HB, HB SC: 1000 cd/m²)	450 cd/m² (HB, HB SC: 1000 cd/m²)
Backlight dimming	Marine optimized dimming, down to 0,5 cd/m²	
Display type	TFT-LCD with LED backlight	
Display pixel error	Class I (ISO9241-307)	
Softcontrol		
Codesys runtime version	- (SC, HB SC: 3.5)	
Codesys EtherCAT	- (SC, HB SC: Yes)	
Codesys Modbus Ethernet	- (SC, HB SC: Yes)	
Codesys Modbus RTU	- (SC, HB SC: Yes)	
Digital IO		
Digital output	- (HB, HB SC: 2×DO Solid state relay, 0.5A@24VDC)	
Communication serial		
Number of serial ports	1 Port 9pin DSUB	
Serial port 1	RS 232 (RTS/CTS)	
Serial port 2	RS422/485	
Serial port 3	RS485 (only if COM 2 is RS485)	
Ethernet communication		
Number of ethernet ports	1 (HB, SC, HB SC: 2)	2
Ethernet port 1	1 × 10/100 Base-T (shielded RJ45)	
Ethernet port 2	- (HB/SC/HB SC: 1×10/100 Base-T - shielded RJ45)	1 × 10/100 Base-T (shielded RJ45)
Expansion interface		
Expansion port	Yes, ciX expansion module	
SD card	SD and SDHC	
USB	1× USB 2.0 500mA (HB/HB SC: 2xUSB 2.0 500mA)	2 × USB 2.0 500mA
Environmental		
Operating temperature	-15°C to +55°C	
Storage temperature	-20°C to +70°C	
Shock	15g, half-sine, 11ms according to IEC60068-2-27	
Vibration	1g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP65, NEMA 4X/12 and UL Type 4X/12	
Sealing back	IP20	
Humidity	5% – 85% non-condensed	

*Certifications pending. Please refer to www.beijerelectronics.com/x2 for detailed status.