

One touch
ahead



10,4"

Specifications
IRT10i4-V4.1



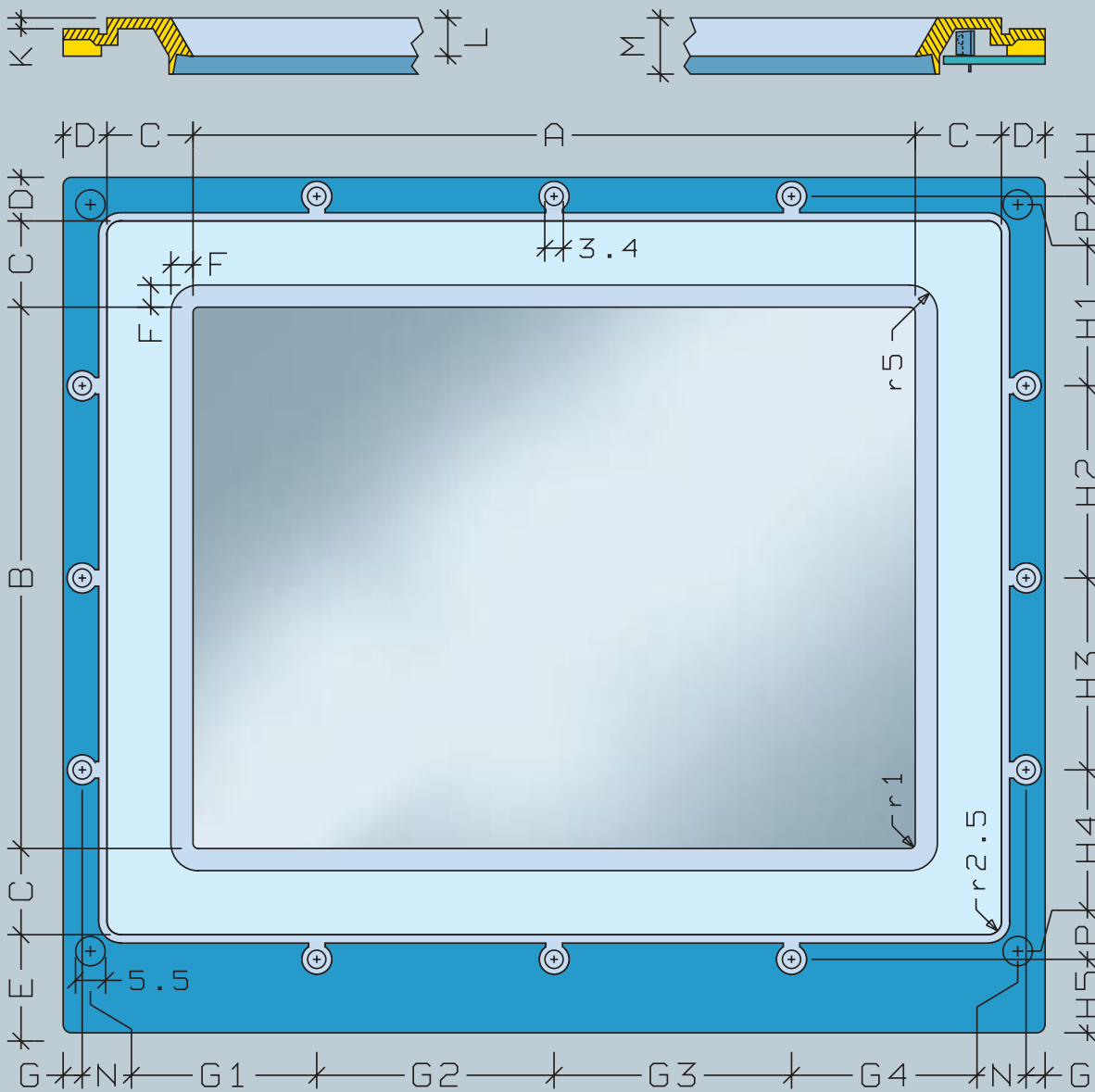
Electrical Specs	Voltage Current (typical operating) Current (worst case)	+5,0V (±5%) 204mArms 250mArms
Communication Specs	Communication Baud Rate, Parity Protocol	Bi-directional, asynchronous, EIA-232-D and TTL 2400 to 38 400 bps Automatic baud rate and parity detection XON/XOFF
Operational Specs	Active Touch Area Touchpoint Density Response time Touch points Stylus Diameter Touch Modes Software Drivers Diagnostics	208,3 x 157,5 mm 16 tps/cm ² 64 tps/cm ² interpolated 19 - 24 ms Simultaneous tracking of two touchpoints ≥6mm, >8mm for interpolation Up to 1009 rectangular areas with individual touch modes: enter, exit, tracking, continuous, Z-Press. Up to 256 area pages MS-DOS, Windows 3.11, Windows 95/98, Windows NT 4.0, OS/2 (on request) Complete system test at power-on, cyclic beam test during operation
Environmental Specs	Operating Temperature Storage Temperature Humidity Altitude Shock (MIL-STD-810E) Vibration (MIL-STD-810E) Sealing (EN 60529) Peak Output Wavelength Ambient light Transmissivity MTBF (MIL-HDBK-217F, @ 25°C) EMI ESD	0°C to +50°C -20°C to +85°C 90% RH @ 70°C, non-condensing tbd tbd tbd >IP65 950 nm, infrared Unaffected Up to 100 %, depending on filter screen >500.000 h EN 50 081-1,2 EN 55 022, Class B EN 50082-1,2
Mechanical Specs	Total size Controller & Bezel Maximum component height Maximum IR-Element height Weight Controller Weight Bezel (no filter screen) Bezel material Connectors	W 262,8 x H 220,0 x D 10,3 mm 2,5 mm 5,5 mm 88 g 82 g PMMA (acrylic glass) X1: 15-pin, Hirose DF13-15P-1.25DS X2: 10-pin, Hirose DF13-10P-1.25DS
Peripherals		1 opto-isolated PWM output for backlight dimming 1 opto-isolated output for touch saver indication or GP use 1 opto-isolated input for touchpoint validation or GP use
Options	Z-axis Audio amplifier (key click)	256 Levels 0,5 W @ 8 Ohm

Connector Pinout:

X1/			X2/		
1	+5V	6	RxD_TTL	11	OC_PWM
2	+5V	7	TxD_TTL	12	+Uh
3	GND	8	RxD_RS232	13	/OC_SSAVE
4	GND	9	TxD_RS232	14	GP_IN+
5	GND	10	COM_EMIT	15	GP_IN-
1	n.c.	6	LOUDSP1		
2	n.c.	7	n.c.		
3	n.c.	8	/BURN-IN		
4	n.c.	9	/RESEXT		
5	LOUDSP2	10	GND		

Touch Bezel Specifications

Material	Polymethylmetacrylat (PMMA) Plexiglas	Scratch hardness Hr (acc. to Martens)	0,025N
Rockwell hardness (ASTM D 785-62)	M93 (Scale R)	Dielectric strength	30kV/mm
Chemical Resistance	Data upon request	Optical transmission factor (DIN 5036, @3mm, 380-780nm)	92%



A	B	C	D	E	F	K	L	M	N	P
214.8	162.0	15.8	8.2	18.2	4.0	2.0	7.0	10.3	1.5	1.5
G	G1	G2	G3	G4	H	H1	H2	H3	H4	H5
3.5	76.4	50.0	50.0	76.4	3.5	50.0	50.0	50.0	50.0	13.5

all dimensions in mm